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# BUSINESS WEEK



START OF WAR 1939

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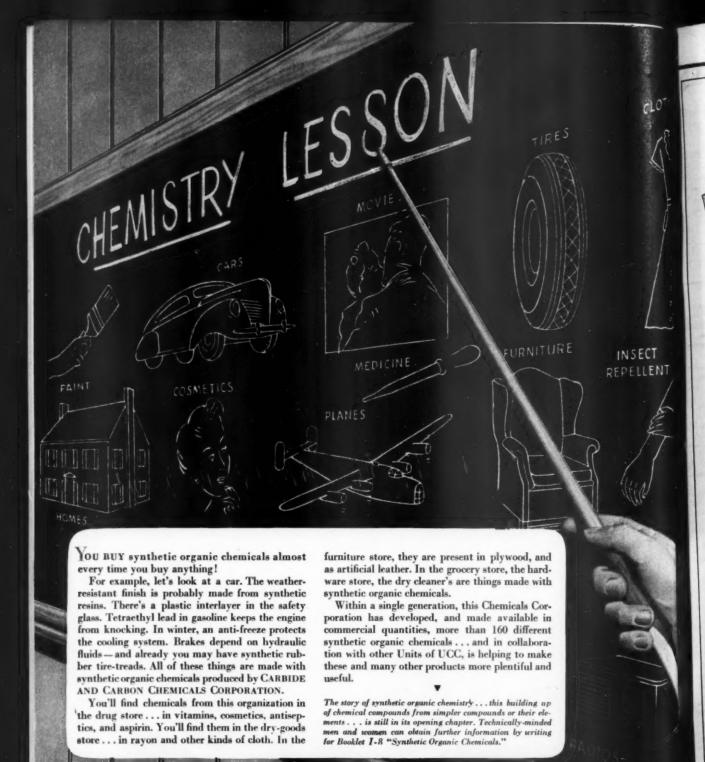
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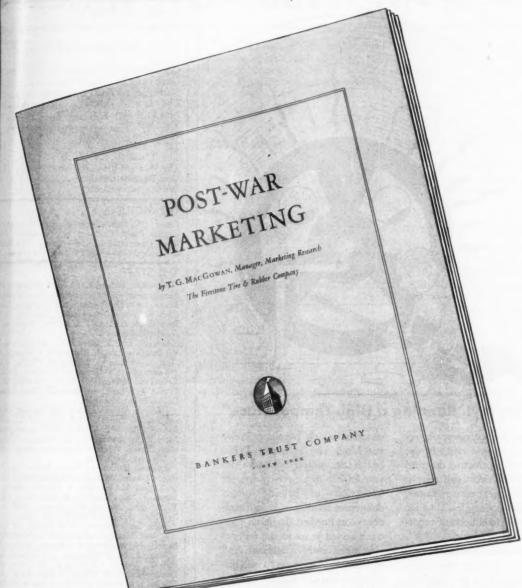
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POST-WAR planning focuses attention on problems of distribution and marketing. We believe the ideas and information presented in this paper will therefore be of timely interest to industrial and business executives. Copies will be sent on request to Bankers Trust Company, 16 Wall Street, New York 15, N. Y.

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NEW YORK



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#### BUSINESS WEEK

#### WHERE TO FIND IT

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## WASHINGTON BULLETIN

#### tabilization Policy to Shift

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118

80

120

Germany's fall will call for recasting the Administration's stabilization olicy, as to both prices and wages.

olicy, as to both prices and wages.

That's certain; and offhand, it would be be before lection day, even if victory is still round the corner on that date.

Examination of the situation from votes-for-Roosevelt standpoint indiates, however, that the President will it tight till after the votes are inness he can figure out a scheme that will please both the C.I.O. and the FL.

#### C.I.O. Would Get Break

The rub is that the C.I.O. would be the first to benefit from any relaxation in the hold-the-line policy. In the auto, teel, and electrical industries, its cases for a wage boost are already set up.

If Roosevelt feels that it's advisable to sweeten the C.I.O., he has only to assure the organization privately that wages will be raised in good time to cushion the shock of slashed war production incident to Germany's defeat.

He can do that without antagonizing the A.F.L., whereas a positive move by Roosevelt at this time would leave A.F.L. in the lurch.

#### Politics vs. Labor Controls

The declaration of Thomas E. Dewey and the Republican platform against arbitrary wage-freezing, and the hope expressed by Gov. Dewey in his Labor Day proclamation that present labor controls can be stripped off within a year, would seem to be a good opening for a move in that direction by Roosevelt right now.

But Dewey then could say that the

But Dewey then could say that the Commander-in-Chief is permitting politics to interfere with the war effort, or otherwise turn President Roosevelt's action against candidate Roosevelt.

#### Old Formula, New Technique

The Administration's new stabilization policy, when it comes, will not junk the old entirely. The Little Steel formula nominally will remain standing, but Roosevelt will beat a path around it by some such technique as deciding that, to insure a floor under wage purchasing power, reductions in overtime payments must be offset by increases in basic hourly rates. On the price side of stabilization, the hold-the-line order will have to be by-passed if widespread cutbacks and the drive for full employment bring OPA to adoption of a more liberal reconversion price policy (page 15).

#### Nelson-China and After

Donald M. Nelson won't stay long in China, but he may not continue long as War Production Board chairman after he gets back. Nelson is deeply interested in the postwar foreign trade field. Friends say he would be willing to turn over the WPB job during reconversion to a new man who would bring a fresh viewpoint to bear on the program.

President Roosevelt's announcement of Nelson's mission, engineered by War Mobilization Director James F. Byrnes, stated that he would be gone for several months—which might cover a considerable part of the transition period following Germany's defeat.

Protests from industry, labor, and consumer groups were so strong that Roosevelt quickly followed up with another statement saying that Nelson's absence would be only temporary, and that his assignment did not mean any change in WPB policy.

News of the trip had been widely construed as a blow to Nelson's reconversion program. If the White House underrated Nelson's pulling power with the public, it has a better idea now.

#### Reassurance Needed

There is a real reason for Nelson's trip. His job will be to assure Chiang Kai-shek that the U. S. soon will be able to get in enough arms to equip China's discouraged armies and some consumer goods to prop up the wobbling Chinese economy.

This week, the Lend-Lease Administration reported that it had been able to get only a small amount of supplies into China. Total to June 30 is only \$153,584,000. Reassurance is badly needed at Chungking.

#### Surplus Disposal Issue

Surplus property disposal legislation will remain up in the air until a conference committee finally irons out the differences between the bill passed by the House this week and that likely to be adopted by the Senate.

Major issue, unless the Senate upsets its own Military Affairs Committee, will be over administration of the disposal program. The House knocked down two efforts to set up a board, as proposed by the Senate committee, instead of a single administrator.

The fight will be stiff, but the House is expected to win. If so, W. L. Clayton, administrator under temporary appointment, is slated to keep the job. But many major disposal plans will be subject to congressional veto.

#### Conference Will Decide

Any hope that the labor-supported Kilgore-Murray demobilization measure for war workers would be revived by the House was blasted this week by the Ways & Means Committee.

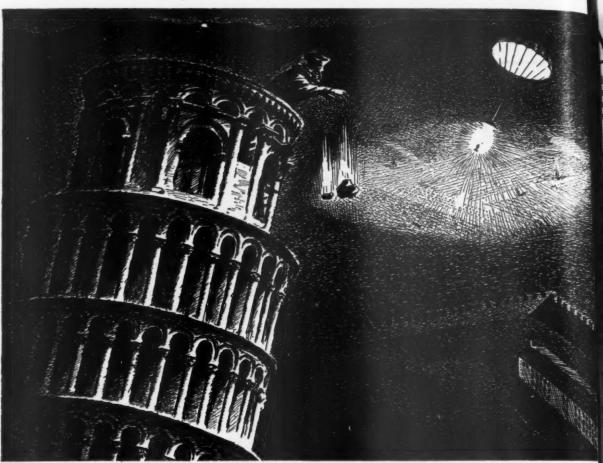
Even the Senate-approved George bill, which was adopted by a coalition of Republicans and southern Democrats after sponsors of the Kilgore-Murray bill described it as entirely inadequate, was too liberal for the House committee.

The House committee stripped the bill of several of its major provisions primarily to offset a drive on the floor for adoption of some of the Kilgore-Murray bill benefits, and to give the House conferees some trading material. Like the surplus property disposal measure, the unemployment compensation bill for war workers will be largely written in the Senate-House conference committee.

#### Post-Nazi Lend-Lease

Lest anyone-including the National Assn. of Manufacturers (BW-Aug.12'44,p112)-doubt his position on the continuation of lend-lease to fighting Allies after the defeat of Germany, President Roosevelt laid it on the line in his report to Congress this week on lend-lease operations: "Until the unconditional surrender of both Japan and Germany, we should continue the lend-lease program on whatever scale is necessary. . . ."

Few ever doubted that lend-lease would be continued not only to Britain but to other nations which will fight against Japan after Germany is down. What is more important, while lend-lease continues, its character changes. Thus, Britain since November, 1943, has received certain longrange industrial goods only on a cash-



THE UNITED STATES TIME CORPORATION, world-famous watchmaker, produces time fuses - 20th Century outgrowt of Galileo's experiments - which set off parachute flares. Shell supplies a unique lubricant eliminating hand-finishing

# A Flare for Accuracy

GALILEO-16th Century scientist-made revolutionary experiments at the Leaning Tower of Pisa, timing the speed of falling bodies with amazing accuracy.

An outcome hundreds of years later is the M-111 A2 flare fuse. One of the world's most accurate time-keepers—it serves out a lifetime of only 5 to 92 seconds! Dropped earthward in a can from great heights—at any predetermined height this time-mechanism explodes the top off the can, opens an 18-foot parachute and simultaneously lights a magnesium flare. For four minutes this enables bombardier or reconnaissance photographer to see a ground area 5 miles in diameter!

The fuse used in a parachute flare is one of the most intricate instruments devised by man—many of its parts tooled to tolerances that are microscopic. The U. S. Time Corporation, peacetime manufacturer of Ingersoll watches, built a modern plant, scientifically lighted and air-conditioned, and set up a unique mass-production assembly line to turn out time fuses by the thousand. New tools and

machinery were designed ... requiring highly specialized lubricants and cutting oils.

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A Shell Lubrication Engineer, called in to work with the U. S. Time engineers, recommended Shell Garia Oil 15C, a new "high-tolerance" cutting oil for milling, turning and threading aluminum.

In actual test, Shell Garia 15C proved its worth: it helped turn out precision parts with so accurate a machine finish that not only was slow, costly, hand-finishing eliminated—but tool life was greatly lengthened as well!

In lubrication, yesterday's solution is seldom good enough for today! At the "University of Petroleum," Shell's research laboratories, lubricants are constantly being improved. Shell Lubrication Engineers apply these improvements in the field.

Do the machines in your plant get the benefit of all that's new in lubrication?Make sure by calling the Shell Lubrication Engineer.



First oil refinery to win the Army-Navy "E"—Shell's Wood River Refinery

LEADERS IN WAR PRODUCTION RELY ON SHELL INDUSTRIAL LUBRICANTS

#### VASHINGTON BULLETIN (Continued)

learry basis. Discussion of the mal procedure for shifting capital ds from lend-lease is continuing in and Washington.

#### te Shakeup Expected

The Interstate Commerce Commisn probably will give southern and stern shippers many of the freight e adjustments they want long before thing results from the antitrust case W-Aug.12'44,p5) the Dept. of Jusfiled in Lincoln, Neb., this week inst western railroads and the sa. of American Railroads.

An ICC decision in the southern temors' rate case is due in the fall. Itical observers are confident that is will be a substantial step toward that the South

d West are demanding.

Musicians may have serious consequences for NWLB.

It broke a board tradition that compliance decisions are taken by a unanimous vote, regardless of whether the board's original action which provoked the defiance was unanimous.

The precedent conceivably might give employer members an excuse to dissent on decisions to refer to Vinson or the White House employer refusals to accept maintenance of membership.

Vinson has the job of figuring out a way to make "name" musicians play for certain record makers who have refused to make royalty payments into the union's unemployment fund (BW—Jun.2'44,p28). The casual nature of the employment relationship complicates the problem.

The other Petrillo defiance involves the refusal of eight musicians to work for radio station KSTP in Minneapolis (BW-Aug.5'44,p94) at certain rate schedules. Here government seizure of the station might be effective, but the case is considered too petty for such drastic action,

#### May Revise Beef Subsidies

OPA thinks it sees a way to smash the black market in high-grade beef by having the Defense Supplies Corp. boost the subsidy on low-grade beef (by transferring part of its hog subsidy money to beef).

If packers, at present, go over subsidy-ceilings in bidding for high-grade beef, they can bring down the average by picking up low-grade beef cheap. OPA would like to raise the subsidy floor on low-grade cattle and force packers to meet it.

Higher subsidies on low-grade cattle

#### Protect Subcontractors

WPB's Procurement Policy Board ought to light a problem that has en worrying officials for some time W-May20'44p7) when it issued a atement of policies to protect manuturers of materials and components. Many subcontractors have been buildgup inventories without waiting for ders from primes. This shortens lead me and speeds deliveries as long as ders keep coming in, but with the reat of cancellation coming closer, beontractors are saying that they must orten up inventories unless they can a sure they will be covered in terination settlements.

The Procurement Policy Board, hich includes representatives of all e procurement agencies, rejected the beontractors' suggestion that the my and Navy take responsibility for its made up in anticipation of orders, istead, it has set up a program to get mime contractors to place advance ders and accept responsibility for sub-intractors' inventories in settlements. his won't satisfy the subs, and it won't case primes, but officials hope to make stick.

#### recedent May Vex NWLB

Failure of the A.F.L. members of the ational War Labor Board to support majority decision asking Economic abilization Director Fred M. Vinson act on two cases of defiance by James Petrillo's American Federation of

#### New CAA Chief-An Aviation Veteran

T. P. Wright—Theordore Paul on his birth certificate, Ted to his intimates—has been nominated as administrator of the Civil Aeronautics Administration.

• Industry Knows Him—Most top aviation industry officials know how much Wright has contributed to bringing order into the aircraft production picture since he was called to Washington from his post as vicepresident and director of engineering for Curtiss-Wright. Few others do.

Wright's nomination brings to one of the top civilian aviation jobs an engineer whose interests and activities in aviation have not been confined to the manufacture of aircraft but to its application to air transportation as well.

• Has Board's Respect—Wright has the ability to get along with people—an asset everywhere, but nowhere more so than in Washington. At the Aircraft Resources Control Office, where he is director, and at the Aircraft Production Board, of which he is a member and recorder, Wright has excellent working relations with the staffs as well as with industry.

Wright is a native of Galesburg, Ill., and he's 49 years old, medium height, and his slightly wavy light brown hair is now graying. Easy to talk to, he is articulate both in speech and in writing.

He was first called to Washington



from Curtiss-Wright in June, 1940, to serve with the advisory commission for the Council of National Defense and returned to his company some six months later after the expansion program was under way.

• Another Call—Wright was called back to the capital in February, 1941, with the Office of Production Management (later WPB) where he was deputy director of aircraft production until this unit was replaced by the Aircraft Production Board in December, 1942.



## IRON FIREMAN

Pneumatic Spreader Stokers save coal, Increase production in West Virginia Plant

Increase Steam Output. Iron Fireman stokers firing two boilers rated at 400 h.p., increased the available capacity 25%. Steam conditions are 300 psi at 650°F,

Burn Low Cost Coal. All grades of bituminous and sub-bituminous coal, including lignite, are burned efficiently by Iron Fireman Pneumatic Spreader stokers. Halltown now uses much lower cost coal than was possible with former stokers.

Pay Out in 3 Years. In fuel savings alone (not counting other economies) these two Iron Fireman stokers have paid for themselves in three years.

What About Your Boiler Room? Without cost or obligation you can have an accurate, impartial survey of your boiler room. Iron Fireman's service and engineering network covers the continent. Commercial and industrial stokers are available now. Write to Iron Fireman Mfg. Co., 3155 West 106th Street, Cleveland 11, Ohio. Plants at Portland, Oregon; Cleveland, Ohio; Toronto, Canada.

IRON FIREMAN



IRON FIREMAN PNEUMATIC SPREADER STOKER meters steam size coal to the furnace on a stream of pre-heated air. Conveyor nozale accurately distributes coal over the entire grate on a shallow fuel bed, the fines burning in suspension. Combustion efficiency is greatly improved over stokers which do not preheat the fuel.

are being urged by western congressmen, who fear a glut of grass-fed beef this fall (box, page 17). So, for political reasons, Economic Stabilization Director Fred M. Vinson may go along with OPA. The War Food Administration, most of whose officials don't fear a surplus of low-grade beef (particularly in view of an expected short supply of pork), doesn't want to rock the boat.

#### Credit Curbs Stay Awhile

Reports that the Federal Reserve Board soon will relax its Regulation W—which restricts instalment credit—are premature by at least several months. Regulation W isn't due for any major overhaul until reconversion goods start reaching the market in quantity, which will be some time after Germany's surrender.

Experts figure that until then the public will have more than enough cash to buy all the goods available, and they don't intend to start tapering off restrictions on credit until the new merchandise actually is on the counter.

#### Ship Sale Accord Near

Plans for postwar disposal of government-owned ships are beginning to take shape in Congress, although final action isn't likely this session. The Maritime Commission, labor, and shipping interests are fairly well satisfied with the revised bill introduced this week by Chairman Schuyler Bland of the House Merchant Marine Committee.

The new Bland bill would set up three categories of ships with selling prices determined differently for each: regular cargo ships and tankers similar to those constructed before the war, Victory ships, and Liberty ships. For regular models and Victory ships prices would be based on estimated prewar costs. Liberties would sell for a base price of \$100 a ton.

More debate on the price and sales terms of Liberties is due. The idea is to fix the price low enough to insure the use of Liberties, but high enough to encourage gradual replacement by more efficient models.

—Business Week's Washington Bureau

#### THE COVER

Having set the pace of the world security conference (page 111), Secretary of State Cordell Hull will act as the link between the technicians of peace and Congress. The Administration has not forgotten how the lack of such liaison soured the 1919 peace.



GUST

#### But let us help you cut travel in New York State

Everybody can buy war Bonds— "tickets to Tokyo." But travel to Troy—or other up-state New York territories—is another matter these days. Is your trip essential?

Marine Midland can help you avoid the travel. In 40 leading New York State cities are Marine Midland Banks, next-door neighbors to the community's business. The Officers of these banks keep constant check on the business pulse of the community. Why not discuss your problem with them?



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## HE OUTLOOK

SINESS WEEK GUST 26, 1944



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Estimated steel ingot production this week is the lowest—94.5% of capacity—since early 1942, barring weeks upset by holidays or strikes.

To the person who has watched the weekly estimates hover around 96%, 97%, and even higher most of the time since the first of June, this may seem a sharp dip. Actually, that isn't the case at all.

Weekly estimates in the 96%-97% range for June and July proved high when steel industry statisticians counted up what really had been turned out. June output amounted to only 93.9%, July to 94.4%.

The United States recently has been producing steel at an annual rate between 6,000,000 and 7,000,000 tons short of capacity.

Not only has the actual operating rate been dragging around the 94% level since the end of May, but there is a statistical factor that pulls the figure down a little further still.

The weekly and monthly percentages are based on the capacity we had at the beginning of this year—93,652,000 tons annually on Jan. 1. But we have added nearly a million tons to capacity since that date; thus a 94% rate based on Jan. 1 capacity means only 93% of today's actual potential.

These things lose steel needed in the war effort. To be sure, the industry has been doing a heroic job in the face of manpower shortages; this is the anticipated midsummer sag, but it is a loss nonetheless.

Shortage of flat-rolled steel is holding up production of civilian durable goods more than anything except manpower. The steel industry is staring at order books clogged clear into February on many products.

Yet there is a shrewd suspicion that a lot of the steel will never be fabricated. It was ordered to throw at the Nazis, and this week's war map hardly looks as if we would be making steel for that purpose in November, much less in February.

Steelmakers are wondering just how great the shock will be when unneeded orders are scratched off their books on Germany's fall.

Cutting of red tape on V-Day would go a long way toward warding off a demoralizing drop in steel operations.

There is a growing feeling in manufacturing circles—and not just in steel—that the War Production Board should sweep out all "L" and "M" orders in a batch. This argument holds that we can take reconversion to civilian goods in stride and still produce plenty to lick the Japs.

Only controls WPB would need, advocates of this plan insist, would be honest answers to these two questions:

Can you produce for civilians without shirking on war orders?

Can you get the workers without keeping men away from war plants?

People who urge this simplified course don't mean that there should be no planning for reconversions. The more preliminaries we put behind us, the less the unemployment during the worst of the cutbacks.

If WPB were to slash the reconversion red tape, the main problems then would become cancellations, settlement of contracts, clearing the production lines, and pricing of the new products to be made.

There are enough headaches in these things even if other restrictions

BUSINESS WEEK AUGUST 26, 1944 are removed. Pricing, by itself, will cost plenty of precious time (page 15).

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The radio-television-electronics industry is one that figures that it can do its full share toward the goal of "full employment" after the war.

The prediction of Benjamin Abrams, president of Emerson Radio & Phonograph Corp., is an annual volume of \$3,000,000,000 compared with \$350,000,000 before the war.

And the electronics people know right where to look for new workers—the Army Signal Corps. Tens of thousands have been trained in radar.

The drive for high farm prices, now and postwar, is getting up a full head of steam (pages 17, 120). Nub of the whole thing is "parity price," and the way parity works will be very interesting.

Above all, it should be remembered that government supports for farm prices will not prevent declines.

Parity is a sliding scale, the relationship of farm prices to the things the farmer himself has to buy. If hay rakes, overalls, coffee, and sugar go down, then parity itself goes down.

Moreover, many crops now are well above parity. Some examples: raisins at 160%; sugar beets, milk, and butterfat at 130%; soybeans at 125%.

Business Week feels (and this view has wide support in the Dept. of Agriculture) that farm prices in general will tend to dip in the year after Germany's defeat, that consumers' durable goods will go up.

If that proves accurate, a government support program at 90% or 100% of parity will require spending billions of public funds in the effort to nail farm prices to a general rise in manufactured goods.

Sugar men are awaiting with keen interest postwar developments in this country's sugar beet industry.

They don't look for much wartime increase in planting. Even at high beet prices, farmers can get several times as much return per acre from other crops. This is notably true in California, biggest beet state.

Beets come into favor when other farm prices aren't so high. "They're a great depression crop," as one authority puts it. The tariff and federal benefit payments (\$48,000,000 a year for beets and cane) favor them.

**Biggest postwar boost will come from mechanization.** Most of the expensive, back-breaking hand labor will disappear after the war when enough of the newly developed implements (page 52) can be manufactured. The sugar industry is wondering, therefore, if beets can shake the "uneconomic" stigma.

For your clew as to when residential building may be resumed on a large scale, watch the figures on wholesale-retail inventories of lumber.

Stocks long ago dropped below the danger point. They have been drawn down still further in recent months, and the rate of decline has risen.

In the last half of 1943, the overdraft was 2.5% on retail stocks and 5.4% on wholesale inventories. In the first three months of this year, WPB reports the declines at 18.6% and 19.4%, respectively.

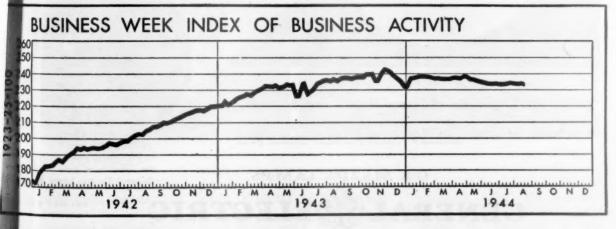
Total inventories at retail and wholesale dropped from 2,955,450,000 b.ft. at the end of last year to 2,401,548,000 on Mar. 31, 1944.

## GURES OF THE WEEK

	§ Latest Week	Preceding Week	Month Ago	6 Months Ago	Year Ago
INDEX (see chart below)	*234.4	†235.2	235.3	239.0	237.0
UCTION					
Ingot Operations (% of capacity)	94.5	96.0	95.9	97.7	99.4
oction of Automobiles and Trucks	18,800	118,895	19,545	18,110	19,820
neering Const. Awards (Eng. News-Rec. 4-week daily av. in thousands)	\$6,290	\$6,447	\$6,894	\$5,125	\$6,731
ric Power Output (million kilowatt-hours)		4,415	4,381	4,512	4,265
le Oil (daily average, 1,000 bbl.)		4,667	4,615	4,385	4,218
ninous Coal (daily average, 1,000 tons)	2,018	2,000	2,043	2,158	2,025
Jameous and L.C.L. Carloadings (daily average, 1,000 cars)	84	. 83	83	78	81
Other Carloadings (daily average, 1,000 cars)		65	68	55	67
er in Circulation (Wednesday series, millions)	\$23,020	\$22,910	\$22,531	\$20,610	\$18,214
artment Store Sales (change from same week of preceding year)	+13%	1+5%	+15%	-21%	+4%
ness Failures (Dun & Bradstreet, number)	19	16	29	25	54
(Average for the week)					
Commodity Index (Moody's, Dec. 31, 1931 = 100)	250.5	249.8	249.4	249.3	245.4
ustrial Raw Materials (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).		1165.2	165.1	162.1	160.3
nestic Farm Products (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).		221.9	224.2	221.1	212.6
shed Steel Composite (Steel, ton)		\$56.73	\$56.73	\$56.73	\$56.73
Steel Composite (Iron Age, ton)		\$19.17	\$19.17	\$19.17	\$19.17
per (electrolytic, Connecticut Valley, lb.)		12.000€	12.000€	12.000∉	12.000€
est (No. 2, hard winter, Kansas City, bu.).		\$1.50	\$1.53	\$1.63	\$1.39
ar (raw, delivered New York, lb.)		3.74e	3.74e	3.74¢	3.74€
ton (middling, ten designated markets, lb.)	21.60€	21.38¢	21.34¢	20.93∉	20.24
ol Tops (New York, lb.)	\$1.332	\$1.325	\$1.340	\$1.304	\$1.355
bler (ribbed smoked sheets, New York, lb.)	22.50∉	22.50∉	22.50∉	22.50¢	22.50∉
NCE					
Stocks, Price Index (Standard & Poor's Corp.)	102.9	102.0	101.5	93.8	93.2
dium Grade Corporate Bond Yield (30 Baa issues, Moody's)	3.55%	3.55%	3.56%	3.72%	3.82%
h Grade Corporate Bond Yield (30 Aaa issues, Moody's)	2.72%	2.72%	2.72%	2.74%	2.69%
Loans Renewal Rate, N. Y. Stock Exchange (daily average)	1.00%	1.00%	1.00%	1.00%	1.00%
ne Commercial Paper, 4-to-6 months, N. Y. City (prevailing rate)	1%	1%	1%	1-1%	1-1%
(ING (Millions of dollars)					
nand Deposits Adjusted, reporting member banks	33,894	33,565	32,945	31,509	34,311
Loans and Investments, reporting member banks		56,524	57,304	53,854	47,040
mercial and Agricultural Loans, reporting member banks		6,013	6,068	6,446	5,740
rities Loans, reporting member banks	2,759	2,849	3,380	3,012	1,373
Gov't and Gov't Guaranteed Obligations Held, reporting member banks	42,229	42,289	42,424	39,139	34,574
r Securities Held, reporting member banks	2,946	2,939	2,881	2,843	2,906
ess Reserves, all member banks (Wednesday series)	1,000	1,000	1,500	1,269	1,288
al Federal Reserve Credit Outstanding (Wednesday series)	15,682	15,604	14,999	11,961	8,586

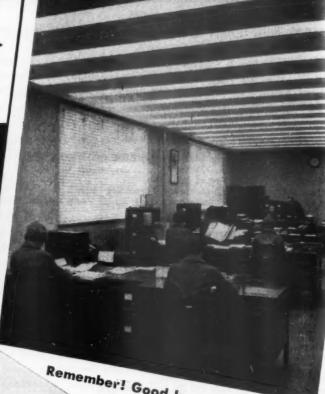
liminary, week ended August 19th. ling fixed by government.

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## USINESS WEEK

NUMBER 782 AUGUST 26, 1944

## hat Price Civilian Goods?

Broad policy is set on reconversion products, but problem fing specific formula to meet all situations plagues OPA. ctors are profits and production economies.

sponsibilities, OPA has not yet d a formula for pricing recongoods. But the general policies by will follow are beginning to ape (BW-Aug.19'44,p5). Administrator Chester Bowles

Administrator Chester Bowles that OPA will take account of wage rates and materials costs reconversion prices. To offset owever, he announces that OPA position of manufacturers who partially reconverted, and (2) on a in total unit costs which may esulted from technological exegained during the war.

ing the Margins-OPA still into keep a tight rein on pricing the early stages of reconversion. In working toward an actual formula, officials have started with 1941 factory costs (which were based on 1941 volume). To this they have added the increases resulting from higher materials costs and boosts in straight-time hourly wage rates. Then they have figured how much margin will be needed as an incentive to reconversion. As the agency sees it, the company that is wholly reconverted will be entitled to a greater margin than one that is partially reconverted and still has war business to help carry the overhead and provide the profit.

Thus OPA might allow a fully recon-

Thus OPA might allow a fully reconverted company to add to its factory costs (adjusted for wartime increases) dollar-and-cents margin per unit that it received in 1941 or some other prewar

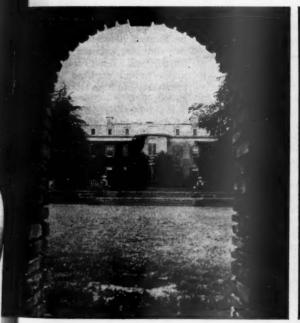
year. The price controllers can be expected to steer clear of pyramiding percentage markups on increased costs.

The partially reconverted company might be allowed to add only the spread between factory costs and total costs, enabling it to break even but leaving no room for a profit on its reconversion business.

• Experimental and Temporary—These standards may undergo considerable modification before OPA's formula is finally set, but they indicate how officials are thinking. Manufacturers should keep two points in mind however:

(1) Price officials know that they are walking on eggs. Whatever shape it takes, the first reconversion pricing formula will be experimental. As snags are encountered, and as manufacturers accumulate cost data, OPA expects to make changes.

(2) Right now, OPA is thinking only a few months ahead. The end of the German war, with large-scale cutbacks, will pose a new set of pricing problems. Quick reconversion and full employment will take precedence over the need

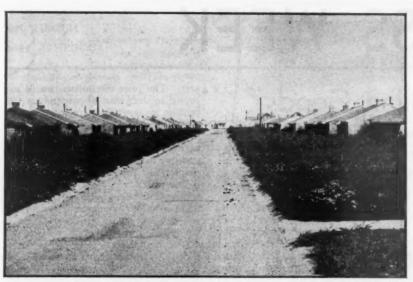




#### **TEWAYS TO PEACE**

Eiffel Tower, symbol of Paris, Dumbarton Oaks, temporary seat ower peace politics, are framed old relief against the background ar. Liberation of the French capital not only represented a major goal of the Allied forces, but greased the skids for the defeat of Hitler's Wehrmacht. With the quickening tempo of military events dictating urgency, Soviet, British, and U. S. delegates to the world security conference at the

Harvard-owned estate near Washington agree on force to assure the peace, may differ on its application. Termed "exploratory talks," the conversations—with China to come in later—provide the framework for the final peace documents (page 111).



#### MODERN GHOST TOWN -

An overambitious wartime building boom that backfired makes one section of Pryor, Okla., look like a modern ghost town. Neat brick bungalows on weed-ridden plots reflect blunders in estimating Pryor's needs and are the result of competition between government and private builders. Never occupied, these two-bedroom homes are part of the privately financed Wilkerson-Wickham project of 147 units, 80 of which are vacant.

At the street's far end is Washington's 500-house low-rent development of prefabricated units (only 20% idle), while another private project of 112 homes nearby remains 50% unoccupied. Center of the boom is the du Pont-operated Oklahoma Ordnance Works which apparently needed fewer out-of-town workers than the three building agencies estimated. Washington can remove its share of the housing glut by moving its vacant units to points of need, but the other two projects are permanently set.

for holding the line. OPA will keep price controls as a brake on a sudden inflationary spiral, but the terms will become more liberal.

 Pricing by Profits—Price officials al-ready tacitly admit that, despite their reluctance to put price control on a double standard, reconversion goods will be priced according to more liberal standards than many civilian goods which have been produced throughout

Last week, OPA amended Maximum Price Regulation 188 to allow for limited increases in the prices of many low-priced consumer durable goods. The amendment permits manufacturers whose over-all operations show a loss (or will within 90 days) to set a price on a given item high enough to cover the total manufacturing and selling cost on that product. A manufacturer whose over-all operation is profitable may on a similar item get a price high enough to cover only the unit manufacturing cost, plus packing and shipping expense. Manufacturers are permitted only to meet competitors' prices when these are lower than the price that would be allowed through one of the adjustment procedures.

The list of items eligible for adjustment is made up of some 47 categories, including such goods as folding baby carriages, curtain rods, mousetraps, pencils, iceboxes. Significantly, however, it includes electric irons, the guinea pig for reconversion.

• Electric Iron Pattern-OPA already has announced that around 85% of an authorized production of 2,000,000 electric irons will be priced at the March, 1942, freeze levels. In default of a broad reconversion pricing order, the remaining 15% (to be produced by companies which had indicated that they cannot get along without an increase in their freeze-date prices) would be priced under the tight provisions of MPR 188-and they may be priced under it even if a reconversion pricing order is forthcoming soon.

Experience of the iron manufacturers in negotiating with OPA provides a cue as to what other industries can expect on reconversion. Iron manufacturers started out by talking about price increases of 15% to 25%. OPA's efforts

to persuade them to be satisfie their March, 1942, prices app were furthered by the produces fears that outsiders might might and undercut them. This week Bowles warned industry that reconversion prices would be tation to new competition.

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ducing Discouraging Big Boosts—OPA ed force ent thinking leaves little room for facturers who are thinking in te prices up to 50% above prewar In the automobile industry, when mates of price increases have run in the neighborhood of 20% and in one instance as high as OPA figures auto producers wo entitled to an average boost of les 5% to cover increases in materia labor costs since 1941. In the w machine and radio and phonogra dustries, the figure would be over 6%. In the piano industry, wage rates have risen one-third, a increase of less than 12% wou necessary in OPA's estimation.

These estimates assume 1941 vo Price economists believe that, on conversion gets rolling, expanded ume and reductions in unit con sulting from the production know gleaned during the war will pay many fields in prices no higher prewar, if as high.

OPA's Dilemma-Before that however, OPA is up against the proof providing a pricing formula for ticklish early phases of reconversion the formula allows too big a boost, will run into pressure from the textile, and other industries under tighter wartime standards into heavy fire from labor and const

If the formula is too strict, OPA have to meet charges of impeding version, depressing wage rates, and ting a damper on postwar expansi • As the Problem Changes-Man turers can be expected to go to with OPA in an attempt to get increases which will cover the porarily high costs of the reconver period-small volume, overtime pay efficient labor, and use of substitute terials or of materials (such as son the surplus inventories) with high version costs. They will be able count on support from Congress often (when wage rates are involved from labor.

In the initial stages of reconvers OPA may be able to set many p on a company-by-company basis. when the price agency can no lo postpone industry-wide, competi pricing, there will be still more tron • Different Experience, Different 0 -There have been wide discrepan among the wartime cost increases enced by different companies in the industries. Take two manufacturwho produced and sold the same competitively before the war. The sof one-located in a tight labor where there has been much uping-have increased 35% since I; of the other, 6%.

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ome companies, which have been ducing consumer goods for the ed forces during the war, have cut through technical improvements. ir competitors, on straight war protion, haven't been so lucky. Some of cutoff rule, which will enable all the highest-cost producers to meet total costs, may be OPA's only tion in cases like these.

talling Time Runs Out—Up to now, A has been able to solve many of its blems and to postpone the evil day the form of another hike in the costiving index) simply by stalling. This ministrative technique won't work hereonversion pricing. If any intent postwar industries wither on the because of OPA's neglect, the sectiprice act won't be worth the paper printed on, and OPA knows it.

#### Postwar Farm Aid

Behind current jockeying is the expectation that peace will bring record program of crop controls, price props.

Congress instructed President Roosevelt to take every lawful action to boost prices of major farm products to parity in the Price Control Extension Act (BW-Jul.1'44,p15), but the buck has been passed back to Capitol Hill with neatness and dispatch.

War Food Administration, which has to do the job along with Commodity Credit Corp., says simply, "We haven't got the money." Congress has to ante up if it wants its mandate carried out.

O'Neal Calls the Tune—It's more than coincidence that cotton interests are busy preparing to do just what WFA says must be done. Led by Sen. John H. Bankhead (page 120) and paying close attention to demands of Edward A. O'Neal, president of the National

Farm Bureau Federation, they are readying plans to assure farmers 100% of parity for their cotton.

O'Neal, meanwhile, is advising planters to seal their crop under government loans of 92½% of parity and wait out the market rather than sell now at going prices slightly under 106%.

• Postwar Crop Controls—Behind all this jockeying, there is a growing realization that the peace will usher in a broader program of crop controls and agricultural price supports than ever has been witnessed in this country.

War Food and Commodity Credit are going on the theory that if prices are to be bolstered the size of crops must be regulated. And Robert H. Shields, WFA's solicitor, has figured the legal angles. He told the annual meeting of War Food Administration and Dept. of Agriculture solicitors in Denver last week that there exists authority to control production.

Washington has clear-cut powers to impose acreage controls on the five basic crops listed in the Agricultural Adjustment Act of 1938—cotton, corn, wheat, rice, and tobacco. (Peanuts for nuts

## To Your Home From the Range-Maybe

Beef-eaters who are smacking their lips in anticipation of plentiful, point-free steaks and chops at midweek had their ears to the ground to catch the first rumblings of the long-expected stampede of range cattle to market. So, likewise, had livestock producers, packers, and retailers.

Cattlemen, processors, and distributors are by no means unanimous that the beef-cattle rush will be as overwhelming as Washington prophesies. But, without a dissenting voice, they agree that the beef-hungry public should withhold its drooling until it has had its first actual taste of lean beef off grass.

taste of lean beef off grass.

• Some Facts—War Food Administration's recent order setting aside for government purchase 50% of all choice, good, commercial, and utility grades of beef is certain to cut into civilian expectations. The only point-free beef in the meat markets—if you can find one that carries it—is utility grade, which is a euphemism coined in Washington to make more palatable the grade that the trade still calls "common."

Common—or utility—is just above the grade that must be ground up for sausage because human teeth and jaw muscle have their limitations. In the eyes of the trade, the sole proper function of a common-grade beef critter is to sojourn in a Corn Belt feedlot for 90 days on corn to soften its texture and remove its grassy flavor. After range beef is thoroughly boiled, braised, or stewed it is unquestionably good for you. But panegyrics on its nutritional value don't prove that, in taste, it's more than a cut or two above a bologna bull.

The livestock and meat industry is impatiently awaiting the issuance of Washington regulations which might change the entire prospect for range beef. Expectation: increased subsidy to stockmen and a double penalty on packers who buy cattle over maximum or under the minimum prices to be prescribed. The consensus is that such an order will help to stem the flood of range cattle which would otherwise be shipped to market in September and October.

• Opinions-Differences of opinion about the volume of cattle coming to market in the next 60 days are sharp. Washington has consistently cried calamity. Some packers say that only a severe reduction in the price of range cattle, sufficient to give feeders an expectation of better than a \$3-percwt. margin between thin and fed animals, can divert enough grassers to the feedlots to prevent overwhelming the nation's slaughter capacity.

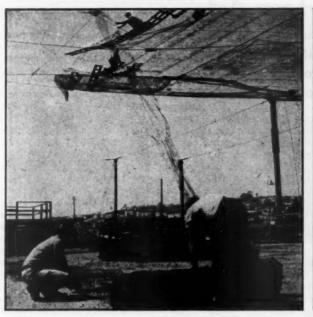
But a survey among livestock commission men who make annual summer trips to the range country discloses that only those at St. Paul and Omaha believe the rush will be up to government predictions.

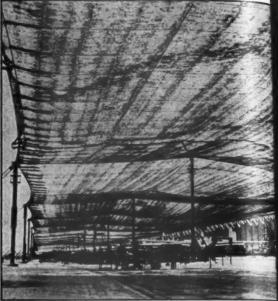
government predictions.

• Reasons Why—One industry economist cites four reasons why marketings should be less than prognosticated: (1) Unless drought hits the range states, the cattlemen have enough feed to carry through the summer, with good prospects for the winter; (2) the market is high enough to quiet their price misgivings; (3) they are well out of debt; (4) the excess-profits tax would get most of their profits if they sell now.

The largest month's commercial slaughter of cattle and calves under federal inspection was 1,818,000 head, in October, 1942. The combined commercial and government drought cattle and calves slaughtered in September, 1934, reached 2,689,000 head.

To achieve WFA's goal of reducing total cattle population, slaughter under federal inspection will have to total about 15,000,000 head in the second half of 1944, or about 50% above the same months in 1943. With labor short and machinery creaking, such slaughter seems beyond possibility.





#### EVIDENCE OF CONFIDENCE

Removal of camouflage netting (left) at Consolidated Vultee Aircraft, San Diego, Calif., reflects the military's

growing confidence that the West Coast will suffer no air raids. Announced reason for stripping away parts of the big expanse of webbing (right) is that it interferes with outdoor plane assemblies. The \$1,000, camouflage job at Convair was star just after Pearl Harbor and a pleted late last year. Its monthly materiance cost ran into four figures.

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have since been added to the original legislation.)

• Wartime Additions—But the list of supported commodities has grown during the war. The so-called Steagall amendment commodities are guaranteed price props at 90% of parity throughout the war and "until the expiration of the two-year period beginning with the first day of January immediately following the date upon which the President by proclamation or the Congress by concurrent resolution declares that hostilities in the present war have terminated...."

The Steagall amendment commodities are hogs; chickens (with certain exceptions) and turkeys; eggs; milk and butterfat; certain varieties of dry peas and beans; soybeans, peanuts, and flax-seed for oil; potatoes and cured sweet potatoes. And supports may be with us for a long time. If a similar program had been in force after the last war, it would have terminated on Dec. 31, 1923, because the joint resolution terminating hostilities was not signed by President Harding until July 2, 1921.

 Some Administrative Logic—Now it is evident that the Steagall commodities were not explicitly placed under the acreage and marketing limitations of the Triple-A law. But Shields figures the whole thing is implicit:

"Since the purpose of the two-year provision was to enable farmers to readjust their production to normal by the close of the two-year period, it is reasonable to conclude that production adjustment conditions related to changes in production needs may be imposed. This would make the position of the Steagall commodities comparable to that of the basic commodities..."

• For the 140, Too?—Concerning some 140 other farm products, Congress has declared that the Dept. of Agriculture should operate to bring producers a price and income in fair relationship with the basic and the Steagall commodities to the extent that funds are available and according to "the ability of producers to bring supplies into line with demand." Broad construction of this phraseology presumably would justify a Little Triple-A for the 140.

Aside from cotton planters, those most concerned about supports are the hog raisers. The prop under their market is due to drop from \$13.75 to \$12.50 on Oct. 1. Moreover, it will apply only to hogs weighing 200 lb. to 240 lb.

• Cotton Starts Parade—For the time being at least, the 100%-of-parity mandate has little practical meaning for other farm products. But Commodity Credit figures it probably will be asked to pony up an extra \$200,000,000 on cotton soon (and its \$3,000,000,000 borrowing power already is stretched), while there are fears that growth of surpluses after the war will mean multiplication of loan-and-support operations.

#### Cutback in Dalla

B-24 curtailment to the North American aircraft for 50%. City is resigned to loss industry after the war.

Cutbacks in the war-born aircraft dustry at Dallas, Tex., are more draft than first anticipated. Curtailment B-24 Liberator bomber production the Texas division of North Americ Aviation, Inc., will reduce personnel N.A.A.'s big Dallas plant to 17,500 cut of 50% by Nov. 1. Immediate lease of 3,689 workers was announced as tweek (BW-Aug.19'44,p21).

• Hard to Take—Texans, proud of the budding industry and aircraft production record, found the cutbacks a bit dose. But even the more optimist found little comfort in postwar outlout for Dallas civic leaders are now resign to the likelihood that North America will dismantle its Texas factory after twar. This is expected to be the fater that N.A.A. plant at Kansas City als for it seems obvious to the aircraft if dustry that North American's hopplant at Inglewood, Calif., will have sufficient capacity for peacetime need.

sufficient capacity for peacetime ned Actual disposal of the N.A.A. bran plants will be up to Defense Pla which took care of building the

thers Not Affected—Production of AT-6 Texan trainer at the Dallas will continue on present schedule the November and then will drop of the P-51 Mustang fighter is not ted, and present contracts take action on this plane well into 1945. The before the N.A.A. layoffs bethe Dallas area had a slight surplus orders for essential industry. How manpower officials estimate that ssential business and industry can the 5,000 workers immediately.

## past on Edge

Manufacturers fear they'll left alone in production war er Hitler falls, and that eastern apetitors will get a big start.

Vest Coast manufacturers are beging to look with apprehension toward day of Hitler's collapse. They're id they'll be left to fight the productor war single-handed while their east-and midwestern competitors are perted to make civilian goods. Western nufacturers fear the loss of customers sales channels.

nd Less Labor—On top of this, the tific Coast manufacturer knows that must try to produce with a diminish-supply of workers. Immediate needs estimated at 27,000 workers.

Already the desire for peacetime job unity has seized many of the estited 1,500,000 workers who migrated the West Coast to produce airplanes, ps, and other implements of war.

The manpower situation in the San ancisco Bay area last week was dered to have reached the most critical ge since Pearl Harbor. The northern lifomia office of the War Manpower mmission announced that the area is fering a net loss of from 4,000 to 100 workers monthly. The WMC d the workers, many believing they ll lose their jobs with the defeat of emany, are leaving for their old mes in the Middle West or South.

Novel Approach—To counter this outw of needed workers, the labor-manement committee of the WMC took
novel approach. Last week, in identil advertisements furnished the New
brk Times, Washington Post, and
ashington Star, the committee urged
at war plants on the Coast be peritted to reconvert partially to civilian
oduction on the day Germany is toped. The advertisement was admittedly
pressure move on Washington.

The committee urged immediate action "so that tangible evidence to the war workers will be available now in the direction of creating job opportunities in this area."

• Jointly Sponsored—The advertisements were inserted by the Victory Manpower Campaign Committee of Northern California, an association of management and labor members—between 500 and 600—who contribute financially to a common pool.

Labor leaders and employers believe they can stop the out-migration if they can promise jobs not only throughout the war against Germany and Japan but in the postwar period as well.

• Shortages Cited—Through Sam Kagel, acting northern California WMC director, the employers and unions enumerate their big problems of supplying men for longshoring, warehousing, railroading, ship repairing, and related activities as well as making war goods. Kagel sums up the fears of most West Coast industrialists when he says:

"Industry and the workers, too, are willing to accept their responsibilities, and they are entitled to a fair break with the rest of the nation when war conditions permit a start toward reconversion."

#### Shoes Still Pinch

Leather supply outlook and new demand from liberated areas are expected to keep domestic footwear scarce.

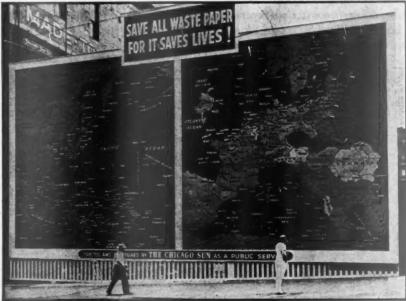
The civilian supply of shoes immediately following the end of the European war is not expected to improve. Even if manpower becomes plentiful, leather will not be.

A new demand will come from liberated countries. Greatly depleted herds in Europe, plus a tremendous demand for shoes, will leave the U. S. not only with a tempting foreign market but also with a domestic demand backed by cash in the pockets of people who seldom bought expensive shoes before the war.

• Rationing to Stay-Rationing of

• Rationing to Stay-Rationing of civilian shoes, therefore, is not likely to end for many months after the defeat of Germany.

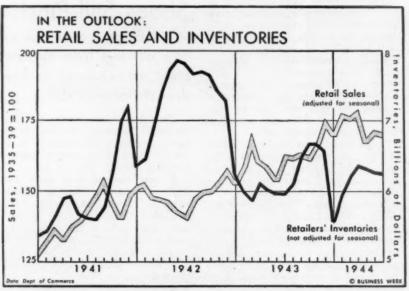
Stamp purchases of rationed civilian shoes have been exceeding production for some months. At first this depletion was hardly noticed, but as time



#### **UP-TO-DATE MAPS**

Constantly revised war maps serve the Chicago Sun in its latest promotional effort to keep the public abreast of battle trends and also familiar with the site of its future home. The 25-ft.square maps are on a billboard erected last week on the W. Madison St. plot recently purchased by Marshall Field

for the newspaper plant he plans to build after the war. Records of Allied advances are kept apace on the painted maps by white arrows screwed into place. Telephone calls from the Sun's telegraph desk dispatch painters to revise the maps at an average cost of less than \$10. Rapidly rolling offensives dictated five changes on the maps in the first ten days.



Retail sales in the second quarter of 1944 dipped below the late 1943 and early 1944 wartime peak-probably because consumer income has flattened out while income and excise taxes have taken another jump (BW -Jun.3'44,p18). Whether total sales rise during reconversion depends on how fast durable goods return as against the pace of reductions in war payrolls. Following the 1942-1943 liquidation, inventory values have changed little over the past year, except for price increases and upgrading, because physical stocks are close to rock-bottom levels. Also, anticipating some markdowns when peace again loosens supplies, retailers have been cautious about laying in stocks of "ersatz" or high-priced goods.

goes on it becomes cumulatively worse. • Stocks Dwindle-OPA hopes to have figures on shoe inventories by mid-September, but earlier surveys show what is happening. It requires about 300,000,000 pairs of rationed type shoes annually to meet civilian purchases. On Jan. 1, 1943, inventories listed 254,000,000 pairs of ration types. Dec. 31 they had fallen to 200,000,000 pairs. Estimates for July, 1944, put the stock at 170,000,000 pairs.

Added manpower can increase production, especially of nonrationed types, but some shoe men are saying that, because of probable fourth-quarter demands of the war agencies, civilians can't count on more than one pair of leather shoes before next summer. WPB expects there will be continued sporadic releases of shoes in unrationed lots as conditions fluctuate.

• The Hide Supply-World hide production for 1944 (number of hides) is estimated at:

United	St	a	te	15							22,000,000
Argenti	na										6,400,000
Canada			9								2,000,000
United	K	iT	ng	C	lo	)1	n	0			1,600,000

This is a big jump for the U. S. over 1943, when the slaughter totaled

something over 18,000,000 head. The increase, however, doesn't all accrue to us. A United Nations world hide agreement allocates 31 hides to the U.S. to one for the United Kingdom. This results in our getting a bigger share of Argentine hides when our own output is down, but when U.S. output is high, our percentage of imported hides falls. (The U.S. imports no tanned leather from Argentina because Argentina does not have the chestnut, oak, and hemlock for tanning, which makes the U.S. process better.)

• Manpower Problem-The manpower situation in shoe factories is critical, but not so bad as in the tanneries. In May, 1943, there were 187,300 workers in shoe factories; in May, 1944, there were 173,800. Workers in tanneries numbered 40,400 in May, 1944. compared with 46,900 a year before.

Nevertheless, civilian shoe production during the first five months of this year increased slightly, from 173,936,-000 pairs in that period of 1943 to 174,888,000 pairs.

This included nonrationed types of shoes, however, and showed a sharp shift in the kind of soling material used. Leather soled shoes dropped from 138,000,000 pairs (first five months of 1943) to 95,000,000 same period of 1944. Rubber composition soled shoes increase 000,000 pairs (from 25,654.000) 527,000) and those with submaterials quadrupled from 10,39 pairs to 46,503,000.

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Shoes - Nonrat Nonrationed types of shoes are probably ade to fill all demands, but retailers

happy about them. While it is true that most con tion soles outwear leather, it is o true that customers don't like o types, which are said to be sl in wet weather. Another compla that they don't hold their s Some types, such as men's exshoes with composition soles. never be made under normal

• Retail Fears-Retailers look at wartime shoes on their shelves misgivings. They are afraid of stuck with them.

If a miracle should happen, leather become plentiful, many ers fear they would go bankrupt be they could dispose of nonration wartime substitutes. Not all are a that rationing is a good thing, the majority seem afraid of wha end would bring.

• Oil Treatment-The oil treatment sole leather to increase its we qualities (BW-Jun.3'44,p54) is, n while, gaining more and more ad ance from manufacturers.

About 80 are now using it, more them employing the Army Quarter ter formula which OPA's Stand Division has approved. Oil treats also permits the use of inferior leaf that would otherwise not be suit for soles.

Military requirements were scar met during the first two quarter this year, partly because the new bat boot (BW-Jan.29'44,p8) a for new methods as well as more leaf Output is rising now, but fourthter requirements are not known. • Postwar Problem - Old-timers WPB's shoe and leather branches a long-term worry-the possible ition of hide prices (now about 15¢ lb.), followed by a collapse of the ket after the war if controls are continued.

They point out that when the U entered the last war in April, 19 domestic cowhides brought 28¢. May, 1918, a ceiling of 24¢ was posed. Controls were removed Dec. 1919, and in eight months hides soared to 53¢ and 61¢. A year four months later they were down 18¢, and by April, 1921, were 8 Many leather and shoe men w

broke.

## nd Issue Again

Clayton trod on tender in turning over to RFC the of selling surplus acreage. er agencies want task.

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enial, adroit William L. Clayton, of the Surplus War Property Adstration, found himself in hot water he first time this week. In setting is plans for disposal of surplus governed-owned real estate, Clayton on the toes of several old-line fedagencies. Now, with SWPA's lative charter pending before Const the field of action in the fight land disposal policy suddenly has shifted to Capitol Hill.

FC Challenged—The man who led the heaviest kick on SWPA's lecart was Assistant Attorney Gen-Norman Littell, head of the Lands ision in the Justice Dept. Littell, ose office has handled most of the emment's land acquisitions during war, appeared before the Senate cial Committee to Investigate the ional Defense Program (the old man committee) to attack Clayton's ision in placing land disposal in the ds of the Reconstruction Finance

the RFC, declared Littell, was inerienced; its agents were too symhetic to real estate brokers; its poliwould touch off a catastrophic land in that would end in a crash.

Rooting for Littell from the sidelines to the Dept. of Interior and the pt. of Agriculture, both of which had mangling for the land disposal job en Clayton assigned it to RFC. en though Congress settles the imdiate issues, the fight is likely to tome a long-drawn-out interdepartmal feud with Clayton and his PA caught squarely in the middle of

ssue Since 1787—Debate over land posal policy began around 1787—en the Continental Congress passed first legislation governing settlement the Northwest Territory. It has an unabatedly hot political issue trainer.

During the last century, the big quesn was how fast and on what terms the
vernment should open up the public
main to settlement. In recent years,
controversy has centered around
deral acquisition of land for parks,
wer projects, and the like. Wartime
quirements of the Army and Navy
ve intensified this fight and raised the
w question of how the government
to go about selling unneeded real

estate after the war (BW-Jun.3'44, p21).

• 460,000,000 Acres—Figures on government land ownership always have been unreliable, partly because federal holdings are divided among more than a dozen different executive agencies, partly because large tracts are subject to claims (such as the rights of Indian tribes) which give the government something less than outright ownership in many cases.

Latest figures, compiled by the House Public Lands Committee, showed a total of 455,171,000 acres under federal ownership, which represent about 24% of the land area of continental United States. Since the report was compiled, the Army and Navy have taken over about 5,000,000 acres in addition to previous holdings.

• Most in Public Domain—By far the largest part of these holdings—about 91%—never has been in private hands. These tracts either are part of the public domain or have been transferred from the public domain to government agencies, such as the Forest Service.

Altogether, the Dept. of Interior, which administers the public domain, holds 267,705,000 acres, of which 55,280,000 come under the Office of Indian Affairs. The Dept. of Agriculture,

which includes the Soil Conservation Service and Forest Service, accounts for another 165,980,000 acres.

• Holds Down Taxes—From the view-point of local government units, the big trouble with federal land ownership is that it keeps property off their tax rolls. In six western states, federal land holdings run higher than 50% of the state's area (chart). In Nevada, 87% of the land is under federal ownership, in Arizona 73%, and in Utah 72%.

Counties sometimes are even harder pressed. Alpine County, Calif., shows about 91% of its territory in federal hands. Two counties in South Dakota have given up trying to act as separate government units and have turned their affairs over to adjoining counties.

 Wanted Tax Rights—Before the war, most local officials didn't want the federal government to dispose of their land holdings. What they wanted was the right to tax it,

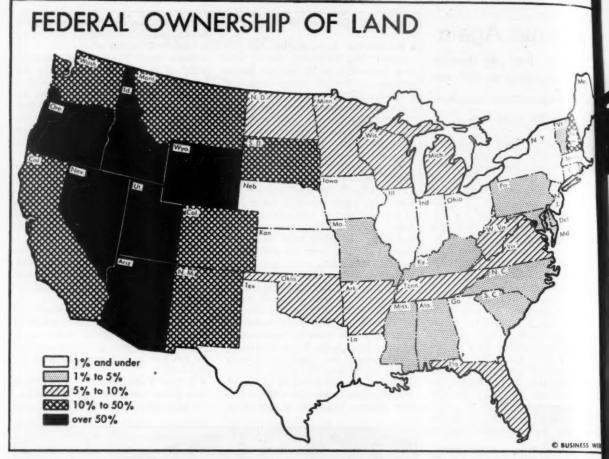
Much of the government-owned land is unsuitable for cultivation or industrial use. In private hands—assuming it could find a buyer—its valuation would be too low to add much to local tax revenues.

• A New Twist—Wartime acquisitions have put a new twist on the situation. Three-fourths of the land taken over



#### LIGHT COAL CARRIER

Beside the Burlington Route's new aluminum hopper car, two girls demonstrate its light weight by hefting a piece of the car's sheathing. The 58lb. side panel weighs 116 lb. less than a section made of steel. Over-all weight saving for the car is almost four tons, 840 lb. of which is represented by hollow steel axles (BW—Nov.13'43,p64). Rebuilt experimentally in Burlington shops, the hopper car contains metal supplied by Aluminum Co. of America under recently relaxed allocations (BW—Jul.8'44, p15). Aluminum's noncorrosive qualities are counted on to make the car stand up, particularly under the destructive chemical action of coal.



by the Army and Navy was transferred from the public domain, but the remainder belonged to private owners. This raises the question of resale after the war.

Army and Navy acquisitions since 1940 add up to a little more than 23,-000,000 acres. The Army has been the big land user, taking a total of 22,163,-000 acres to be used for airports, training grounds, camps, and other installa-

 Where Trouble Lies-From a disposal viewpoint, the 16,477,000 acres transferred from the public domain to the Army present no problem. They can be turned back as soon as they are no longer needed. The rub lies in the 5,647,000 acres that the Army took over from private owners by purchase and con-demnation. Valued at around \$340,-000,000 at the time of acquisition, these holdings are the ones that eventually will have to be liquidated.

Although the Army has started trim-ming down its land holdings in some areas, SWPA hasn't had much disposal work so far. The Army has decided to hold 375,000 acres in standby. It has leased another 195,000, and has declared 168,000 acres excess for the original purpose but possibly needed for

something else. Of the 1,370,000 acres declared surplus, about 1,000,000 have been returned to other government departments, and the rest are being processed.

• 70,000 Acres Certified-Altogether only 17 items, which add up to 70,000 acres, have been declared surplus to SWPA. The largest of these is the site of Camp Adair in Oregon, where a 45,000-acre tract is coming up for disposal. The next most important is a 5,600-acre block of good agricultural land adjoining the Wabash River Ordnance Plant situated near New-

Since the land disposal issue began to shoot sparks, RFC has decided to wait for congressional action before it goes ahead with the sale of the items turned over to it. In its preparations, however, it is following the order that Clayton issued last month laying down his policy on land disposal.

• Prompt Sale Urged-This covers five

main points:

(1) Sell as promptly as possible at current values without disruption of the

(2) Sell outright, reserving the right of recapture only for military reasons. (3) Sell in family-sized parcels and to

purchasers who will themselves put land to productive use.

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(4) Give former owners an opport nity to repurchase their land at curre market value.

(5) Avoid sales to speculators or pr sons planning to combine small tra into large ones for speculative purpos • Current Prices Higher-One of hottest points in the current controver is the idea of reselling to former own at current prices. Since farm la values in many areas have gone up much at 40%, this would mean that the one-time owner would have to put up good deal more to recover his proper than he got when he sold it.

This situation has been dramatized the Navy's Moore Airfield outside N man, Okla. Since the government to over, oil has been discovered on adjoin ing land. (The rising forest of demid is one reason the Navy is abandoning the field.) Former owners, who tried unsuccessfully to retain their miner rights when the government took over are raising a bitter protest.

 Brokers Draw Fire—Clayton's decision to use real estate brokers and pay con missions when necessary is anoth thing that drew fire in Congress. SWP argues, however, that its policy is

# Added Data with Ryerson Alloys

## Are you getting this important help?

Ryerson has always exercised close control over alloy steel quality and for several years has furnished the chemical analysis and heat treatment response data with each alloy shipment. Now, this service has been extended under the Certified Steel Plan to give new additional information... much more helpful than before.

A new type of Report, containing both hardenability and analysis data, now is being sent with each Ryerson alloy shipment. In addition to the chemical analysis, every alloy heat stocked by Ryerson is subjected to four separate endquench tests in our own laboratory. The results of these tests, when interpreted through tables of known physical relationships, reveal the obtainable tensile strength, yield point, elongation and reduction of area for 1, 2, 3 and 4 inch rounds quenched and drawn at 1000°, 1100° and 1200° F. Reports include all this test and heat treatment information, plus recommended working temperatures. Thus, you know the complete chemical analysis, what working temperatures to use; and how the steel will respond to heat treatment.

Ryerson continues to positively identify all

alloys. They are color marked according to type. Large bars are individually stamped, and smaller bars are bundled and tagged with a heat symbol. This identification is entered on every Report Sheet; so cross-reference verification between Report and steel is unmistakable.

Whether you order a single bar or many tons, you can be sure Ryerson will furnish Reports covering every alloy shipped. Both steel and Reports are delivered together on local shipments. When shipment is made by other than Ryerson motor service, the Reports are sent by first class mail and addressed to the heat treating department.

We believe the uniform high quality of Ryerson alloys—the careful testing—accurate identification—the new, complete guide data—metallurgical counsel—and quick shipment—make Ryerson your number one source for alloy steels from stock.

We urge you to use this unique service.

Joseph T. Ryerson & Son, Inc., Chicago, Milwaukee, Detroit, St. Louis, Cincinnati, Cleveland, Pittsburgh, Philadelphia, Buffalo, New York, Boston.



## Treated wood helps keep overhead down, good-will up

Station platforms on interurban railways are the places where patrons form their first impressions of the lines' service and efficiency. Decayed platform decks or broken steps are not only a source of expense to the railway—they can also mar an otherwise favorable public opinion. That's why so many of these "front porches" are built of pressure-treated Wolmanized Lumber\*.

Wolmanized Lumber owes its ability to resist decay and termite attack to vacuum-pressure impregnation with Wolman Salts\* preservative. This treatment drives the preservation deep into the wood; fibre-fixation prevents its leaching out. The wood is clean, odorless and paintable.



You can't get these results by painting a preservative on or dipping the wood. Decay and terraites find it too easy to get inside a film so loosely applied.

Wolmanized Lumber has been employed all over the world by our armed forces, as a means of effectively combatting decay and termite attack. Be guided by the choice of engineers who have selected this wood after observing the splendid performance of millions of feet of Wolmanized Lumber in the toughest kind of assignments. American Lumber & Treating Company, 1656 McCormick Building, Chicago 4, Illinois.

AMERICAN LUMBER & TREATING COMPANY

dispose of surpluses through estable channels and that brokerage is established method of dealing in estate.

Large landholders still are keep suspicious eye on plans to break u tracts into family-size plots. In areas, where large landholding is rule, owners are afraid that govern property will be used to establish a pattern of farm ownership.

### Less Paper Wor

Army comes to rescue harassed contractors with a shipping document elimina dozen-odd existing forms.

Blizzards of paper work that a under virtually every war contractor abate considerably on Sept. I when Army begins using its new un Vendor's Shipping Document wi contains in one foolproof form all data necessary to deliver military a plies.

• Dozen Forms Scrapped—The al clusive blank devised for Quarterna depots and the Army Service For saves time and effort for both the nature and the contractor by scrap the dozen-odd forms now required route all of the various war mater. Bills of lading and contractors' involved will not be affected.

Executed at procurement offices, one-shot shipping order is reproduce mechanically (by hectograph) to pide 17 copies for domestic shipme 49 for overseas deliveries. Copies routed to all of the involved civil and military offices, which add the information to the form as the shipme progresses.

• Butter for Bullets—This system is sharp contrast to present complical methods under which 31 copies of different forms are necessary for modomestic shipments, 49 copies of blanks for overseas ladings. Such ducations have always posed threat such disastrous mistakes as the shipment of butter, say, to embatis troops who need bullets—all because an error in transcribing a serial or strougher.

According to Army estimates, for Vendor's Shipping Document will start and inspection offices, 45% the pencil work at shipping points, at 80% of the verifications and receipting at destinations.

Contractors' savings will vary according to their products, destinations, a volume.

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#### COOL DRINK... WARM RECEPTION SUGAR IN THE SPOTLIGHT... MOTOR PARTS THAT KEEP FIT...



NO. 1 This "cooler" should get a warm reception because the age lets the eyes promise the palate a treat in a variety of ting flavors. 85% of all buying starts with the eyes!



IDEA NO. 2 Off the shelf onto the counter comes the product in a transparent package. An impulse item to catch the shopper's eye, · Novel pouring spout provides convenience in use.

#### **Basic Themes of Postwar Merchandising**

Here are six fundamentals that will help to lower postwar distribution costs and speed up turnover. Use them to check your postwar package plans.

1. SELF-SERVICE: Emphasis on self-selection and dis-

2. CONVENIENCE: Size, shape, quantity, ease of use are predominant factors

3. INFORMATIVE LABBLING: Need for concise information, terse selling message.

4. IMPULSE BUYING: A high percentage of all buying

done on impulse. 5. PROTECTION: Adequate protection geared to rapid

6. VISIBILITY: 85% of all buying done through the eyes. Visibility of primary importance in the package of the future.

Would you like to see more postwar packaging ideas? Just write: E. I. du Pont de Nemours & Co. (Inc.), Cellophane Division, Wilmington, Del.





Better Things for Better Living . . . Through Chemistry



ANO. 3 War has shown the need for adequate protection for products not previously packaged. Metal parts, for example, be guarded against corrosion and dirt. And a window lets prosee the protection.

## MCCULLOCH ENGINEERING CORP.



The organization previously known as McCulloch Engineering Corp., Milwaukee division of Borg-Warner Corp. now is to be known as B-W Superchargers, Inc., Milwaukee.

This change of name is intended to emphasize the fact that this company will continue to specialize and concentrate on the production of superchargers for internal combustion engines for transport, stationary, construction equipment and other services.

The modern plant of the former McCulloch Engineering Corp., on Capitol Drive, Milwaukee was originally designed, built, and equipped for the manufacture of superchargers. In response to wartime demands it has supplied superchargers in volume numbers for military installations of all kinds. When peace returns B-W Superchargers, Inc., will continue to build superchargers for increasing the power of gasoline and diesel engines of the future.

Because it is more indicative of its principal activity—the design, development and production of superchargers — the change of name has been made.



## Alabama Retire

State withdraws banking bership maintenance case upon inclusion of exclause in contract.

Threats of a far-reaching jurisdict dispute between the Alabama De Labor and the regional war labor in Atlanta, Ga., appear to have dissolved, but Alabama hasn't see last of the fireworks. This were state courts were asked to past the constitutionality of the Bralabor control law in an issue a from the rivalry between the federa state agencies.

• Enforcing Security—The display—Jul.15'44,p95) arose when the office of the National War Labor ordered two affiliated Birmingham panies, Ingalls Iron Works Co. Birmingham Tank Co., to enforce maintenance-of-membership project of a contract with the A.F.L. Intional Assn. of Bridge, Structure Ornamental Iron Workers.

The Alabama Dept. of Labor ated with a warning that enforce of this provision would be conto the Bradford act which guara to every worker the right to join refuse to join a labor union.

• No Escape Clause—The contract pired Apr. 12, 1944. It contains naintenance-of-membership clauses out the escape provision, now stand which permits workers to withdraw a union within 15 days after the piration of their contract.

The union, acting under the menship-maintenance clause, demanded Ingalls suspend some 200 workers linquent in dues. The company, argument to do so would violate the Brad act, appealed to the regional board guidance.

The result was a controversial intedirective from the board that, pend a new contract, the old one remaine effect. Industry members dissented.

• Hearings Held—Faced by the Dof Labor challenge, the board follow up its interim directive with hear and a decision, unanimous, that a unsecurity clause supported by a 15 escape proviso be included in a contract which would be considered roactive to Apr. 12.

The 15-day escape provision of made conditional upon delinque members' paying up all back union defore being permitted to withdefrom the union. Such a requirement was the first of its kind in the region but precedent had been established



Scene I-In its shops, plants and factories, America is producing the wherewithal of war.

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Scene II—Traversing more than 56,000 miles of sea lanes, America is delivering.

Mountains of material are scientifically stowed in the holds of our merchant ships or lashed to the decks. Millions of gallons of gasoline and other petroleum products are pumped into ocean-going tankers.

More than 700,000 different articles, guns and butter, are in constant, unrelenting movement by convoy to the battle fronts. Our vast Merchant Marine, guarded by the U. S. Navy, keeps 'em flowing-to keep 'em fighting.

Behind this gigantic assignment of manufacturing and moving the articles of war, one ingredient is always in evidence—oil. Fine lubricants, cutting oils and coolants to insure precision, speed and economy.

Texaco makes all of its quality petroleum products quickly and conveniently available in the U. S. through its more than 2300 wholesale supply points and at principal ports throughout the world. Texaco also makes available from these same sources its skilled engineering service to help in securing efficient operation, speed and economy from its products.

THE TEXAS COMPANY



a number of cases in the shipbuilding industry, the board said.

The board believed that since union members had bound themselves voluntarily for the term of the contract, they should be required to discharge their union obligations before withdrawing. • State Accepts Decision-The new decision brought from W. Emmett Brooks, Alabama director of labor, who

previously had bitterly assailed the federal agency for interference, a statement that the board no longer was acting contrary to Alabama law, inasmuch as the board now permitted workers to belong, or not belong, to a union.

Brooks said that his department agrees that workers should be obligated, both morally and legally, to pay back dues that had accumulated under old union contracts to which they had ; Although that row seemed to been settled satisfactorily, an injusuit growing out of it remained court docket. Clifford Jenkins, a ber of the A.F.L. union, filed the against Clem W. Walter, Jr., su tendent of the Ingalls company against the union, charging that h suspended for nonpayment of d

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## States Exercise Varied Controls Over Labor Unions

The rash of state laws to control labor union activities which appeared on the statute books in 1942 and 1943 (BW-Mar.13'43,p15) subsided this year, probably pending decisions in court tests now on the dockets. Test cases have been brought in eight of the 14 states having such

• Two Tests Pending-Significant among the current litigation is the case that is now before Alabama's Supreme Court on the Bradford act (page 26) and the argument that is scheduled to begin in Colorado's Supreme Court on Sept. 5 to test the constitutionality of the so-called "labor peace" act (BW-Aug.19'44, p108).

In addition to the ten states listed below, Massachusetts, Michigan, Pennsylvania, and Mississippi also have laws regulating trade unions to some degree.

• Referendums Pushed-Petitions to put so-called "right to work" amendments, outlawing the closed shop, on state ballots this fall have been circulated in a half-dozen states.

The table below indicates the praclords a tical effect of government control on cumsta labor unions in the ten states which digent exercise a more rigid supervision.

64-4-	Financial	Union	Bil distinct	Accembly	Ctulker	T describes	Penalties for	Fred Occ.
State Ala.	Statements Filed annually; open to public.	Membership Pree to join or not join.	Picketing No force or threat may be used to prevent any one from working.	Assembly No assembly at or near a place of labor dispute forci- bly to prevent work.		Licensing	Violations Misdemeanor to participate in or urge an outlaw strike.	one test; anoth
Ark.			No force or threat may be used to prevent any one from working.	No assembly at or near place of labor dispute forcibly to prevent work.			Felony, 1-2 years in state prison.	Two conviction upheld by State Supreme Court.
Colo.	Industrial commissioner makes annual examination.	Pree to join or not join.	No mass or sec- ondary picketing. Industrial com- missioner can limit manner and quan- tity of picketing.		By majority vote on 20 days notice (30 in agricultural work).		\$50-\$100 fine.	Case to be argue in State Suprem Court Sept. 5.
Pla.	Filed annual- ly; open to members	Pree to join or not join.	No secondary picketing.	00000000000000000	By secret majority vote. No force or violence. No juris- dictional strike.	Agents must be citisens of good character, ap- proved by gov- ernor.	Criminal.	Case argued lower court. N
Idaho	Piled annually.	*********	Porbidden on agri- cultural premises. No secondary boy- cotting.	No agent may enter premises without owner's consent.	*************		\$300 fine, 90 days.	Unconstitutions (State Circu Court).
Kan.	Filed annual- ly.		No violent picket- ing or secondary boycotting.		By majority vote. No sitdowns or jurisdictional strikes.	Agents must be citizens.	Revocation of agent's license.	No decision of case argued court.
Minn.	Union must report to members.		No interference with marketing of agricultural prod- ucts.		By majority vote. No jurisdictional strikes.		Labor referee can disqualify union.	No test case.
S. D.	Filed annually.		Forbidden on agri- cultural premises. No secondary boy- cotting.	No agent may enter premises without owner's consent.		······································	\$300 fine, 90 days.	Unconstitution (State Circu Court) except ing returns.
Гех.	Filed annual- ly; open to members.	Public hear- ing before expulsion.	••••••				Union, \$1,000. Individual \$500, 60 days.	
Wia.		*****	No violence. Ma- jority vote requir- ed. Limited to employees.		By majority vote.			Two U. S. S preme Court te did not determi

## OPA Rents Stick

Loopholes for landlords new law aren't expected to ive agency much trouble. Its lower to sue is a deterrent.

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Two escape hatches for landlords in ne new price control law may give OPA less trouble than professionally oomy rent control officials predicted BW-Jul.1'44,p15).

Not Effective Yet-One provision of he amended law-directing OPA to adust rents in cases where "substantial hardship" has resulted from unavoidable increases in costs and taxes since the rent freeze date-does not become en cireffective until Sept. 1.

The other provision-granting landlords adjustments where "peculiar circumstances" (such as rental to an indigent relative) resulted in rents that were lower than those for comparable housing on the freeze date-so far has caused less trouble than OPA officials had expected.

• Must Have Figures-OPA is busily interpreting the rent amendments-and the interpretations should help to pull some of their inflationary teeth. Thus, the agency has ruled that no landlord can apply for relief under the "substantial hardship" clause unless he can show cost figures for a full year under rent control. (New York City landlords won't be eligible to apply until Nov. 1.) Higher occupancy rates are expected to offset higher costs and taxes in many

While the "peculiar circumstances" clause hasn't started a gold rush yet, OPA is afraid that it may prove to be a sleeper-particularly since it is designed to improve the lot of persons who are not so well posted on the ups and downs of rent control as are the big rental agencies.

• Can Sue Landlords-Not all the new egislation on rent control went against OPA. The price agency can now sue landlords for \$50 or triple the amount of the overcharge (in cases of willful violation) or for \$25 or the amount of the overcharge (if the landlord can prove the violation was unintentional). Previously, only tenants could bring triple-damage rent suits, and inertia or the fear of being turned out in the street in retaliation generally prevented them from bringing such action against

OPA already has filed over 50 tripledamage suits against landlords and is just getting in stride. Triple damages are regarded as a particularly powerful weapon for use against hotels, boarding



## -of Cleveland's Great Automotive Parts Industry

UT OF EACH DOLLAR spent for parts before the war, our national automotive industry spent twenty-five cents in the Cleveland area.

Today, the same plants with facilities greatly expanded produce approximately the same proportion of parts for the aviation industry alone.

Such heavy concentration springs from an unusual combination of basic factors vital to many industries for peacetime manufacturing and distribution. Besides location at the strategic heart of industrial America, the Cleveland area affords abundant natural resources and highly developed industrial services.

Few other areas of similar size, if any, offer so much to so many.

For nearly a century this bank has been privileged to aid in the development of industries located here. Businesses of every type considering relocation or postwar expansion are invited to address us in confidence for further information or assistance.

### THE NATIONAL CITY BANK

OF CLEVELAND -

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MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION



Employers Mutual has become one of the largest writers of workmen's compensation insurance in America because of its extensive experience of 33 years in this exacting field. Your compensation insurance placed with Employers Mutual is in competent hands.

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LIABILITY INSURANCE
COMPANY OF WISCONSIN
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Offices in Principal Cities of the United States Consult Your Local Telephone Directory



houses, and other multiple dwelling units—and this is where rent control has been weakest in the past. For example, a hotel which overcharged each of 100 guests \$1 a room for a single night's occupancy would be liable for a suit of \$5,000 or for a minimum of \$2,500 if it were able to prove satisfactorily that the overcharge was an unintentional one.

• Increases Follow Relaxation—OPA already has experimentally removed rent control in four towns—Sault Ste. Marie, Mich., Crab Orchard, Ill., Malvern, Ark., and Stuttgart, Ark. Surveys indicate that rents in Malvern, which were below tent freeze levels when controls were removed late in 1943, have crept upward again, and controls may have to go back on.

The rent increase in Malvern hasn't resulted from any new influx of population. Apparently, it is the result of a general bidding up for more desirable housing. This, plus the normal increase in the number of new families within the community, was enough to pushrents up in the face of the ban on new construction.

• Lower Rents Doubtful—While relief may be in sight for consumers in the form of lower prices for many commodities after the war, rent officials see little hope for a general lowering of rents—except for a few war-crowded areas where they have got far out of line. They expect that it will take several years to work off an accumulated housing deficit which dates back to the midtwenties.

## Orders by Air

Written messages sent by radio from station to moving train during experiments on the Chicago, Rock Island & Pacific

Numerous experiments of tailroat to speed train communications through the use of radio and electronic telephone systems have taken a new two with the successful facsimile trainsm sion of written messages (BW-Feb.) '39,p35; BW-Apr.8'39,p41) from station to a moving train.

station to a moving train.

Meets U. S. Rule—The Chicago, Rod Island & Pacific Ry. Co. last were staged the first public demonstration of the facsimile sending by radio from it Blue Island (Ill.) station to a Kans City-bound freight train.

In previous radio experiments con ducted by the nation's railroads, me sages were exchanged orally. Federa regulations require many train con munications to be in writing, a cond tion obviously impossible for radio telephone communication to mee Rock Island officials believe facsimil sending by radio has great possibilities Received in Caboose—Principles similar lar to that of a telephoto machine were used in the demonstration. The mes sage, written on a piece of paper, wa wrapped around a cylinder, which wa part of the transmitter in the station A photo-electric cell "scanned" the writ-



#### THE HARVESTERS

In Normandy, British soldiers take a breather from cutting down Nazi legions to aid in another type of harvest—wheat. Although war has burned broad paths of devastation through the province, the crops in between not only have escaped the torch, but have flourished—an important tactor in the emergency relief feeding picture (BW—Aug.19'44,p111).



trictly business, though. Bob's V. P. f the Andrew Jergens Co. and I'm a pical Cosmopolitan reader. And e have a lot in common.

writ-

or

This, for instance: I'm young nough to care a great deal about ow I look. And he sells things like ergens Lotion, Jergens Creams and Voodbury Facial Soap. ALL degned to help me look good.

Any wonder why Cosmopolitan as been on the Jergens list since 912? And it's still there today.

#### Here's why Bob likes me ...

m young. The majority of Cosmoolitan readers is under 35.

I'm married. To one of the sweetest guys . . . (he reads Cosmopolitan, too). So naturally I try to keep myself as purty as possible for him. And I've got more money than the average to spend on the job.

#### I'm so nice and young!

I'm young enough to TRY ANY-THING that looks good to me. And when I find something I like-why I've got plenty of years ahead to stay with it. See?

GREAT WRITING MAKES GREAT READING!

writers. We read some of the best best-sellers in Cosmopolitan long before they ever get published!

Isn't it logical? Isn't it sensible? Amn't I just about your perfect dream customer?

All right then. I'll be seeing you.

Cosmopolitan Readers are YOUNG!

opelian is where





# Aids Safety Underfoot

The records show that most of the enormous loss in man-days of production due to industrial accidents is preventable. Injuries due to falls—nearly one-fifth of the compensated total!—without question could be reduced substantially through more rigid methods of floor care. The irregular, slippery surfaces of grease-caked floors are a constant hazard to worker safety, and they decrease worker efficiency through strain of walking on an unsafe surface. And of course such floors slow up trucking and are a fire hazard as well.

It takes powerful scarifying brushes, like those with which the Finnell 84-XR Industrial Dry Scrubber is equipped, to properly rout embedded accumulations of dirt, oil, grease, and shavings ... and to do the job in least man-hours. The Finnell 84-XR is ten times faster than hand-spudding! Has a special type of switch that reverses the motion of the brushes and re-sharpens them automatically. The machine is adaptable to wet-scrubbing, steel-wooling, waxing, and polishing.

For free floor survey, literature, or consultation, phone or writenearest Finnell branch or Finnell System, Inc., 3808 East Street, Elkhart, Indiana. Canadian Office: Ottawa, Ontario.

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BRANCHES IN ALL PRINCIPAL CITIES ing and transformed it into electric in pulses. Aboard the caboose, a receive picking up the impulses, reproduced in message.

A message can be transmitted in the minutes. Two methods of transmitted are available. Radio-transmitted to similes can be picked up by a transmitted to similes can be picked up by a transmitted to the control of the origin point. Sent by carrier, which employs rails a paralleling wires for the electrical or rents, the effective range is 100 mi.

Hearing Sept. 13—For many mona railroads have experimented with rad to flash oral orders between freight tracerews and dispatchers. Signal engines estimate that use of radio to communicate between enginemen and caboo crews saves one hour of time in every four running hours.

The results of these experiments we be presented at a hearing Sept. If when the Federal Communication Commission will be asked to parcel for quency bands to railroads for permaner licenses (BW-Jul.15'44,p73).

• Rivalry in Types—A rivalry has developed in the type of equipment to be used. Some railroads experimented with radio, while others lines are testing electronic train telephone systems.

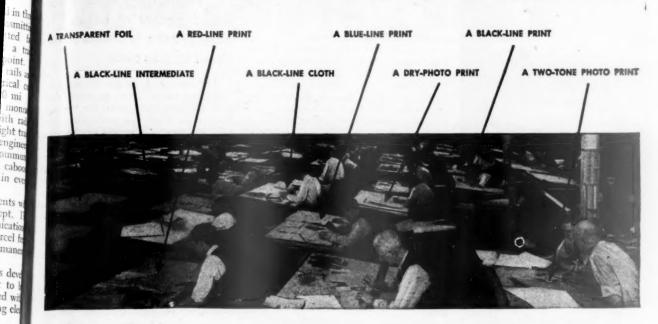
Under the electronic method, higher frequency alternating electric current are transmitted by induction to the rail and to existing wires paralleling the tracks. This system does not require



On a Rock Island freight train bound for Kansas City, a conductor receives a facsimile order during the first demonstration of new application of radio to rail communications operations.

34 Business Week · August 26, 194

## IMPOSSIBLE requests from the drafting room?



## It depends on your printmaking equipment

IMPOSSIBLE when you rely entirely upon blueprint or semi-moist machines. Impossible because "wet" development gives you no choice.

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> POSSIBLE because Ozalid eliminates chemical baths and driers . . . and allows the use of a really amazing variety of sensitized materials which react ONLY to the unique "dry" process.

> SEE these prints yourself. Learn how quickly you can produce them, how you can save by using them in ALL departments.





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Close-up of four sections of a 12-Head FIDELITY Specing Machine

#### For the production speed and smooth lay you want ...use FIDELITY Wire-Spooling Systems.

There are a dozen types of FIDELITY Wire-Spooling Machines to take care of wire from 16 gauge B&S to diameters as low as .0015".

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## FIDELITY

MACHINE COMPANY

Makers of Automatic Precision Machines

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allocation of wavelengths, as is needed for radio communication. This may be an important factor if a postwar scramble develops among railroads and other industries for allocation of radio channels

• Biggest Electronic System—The largest installation of the electronic system was announced this month by the Pennsylvania Railroad. Costing more than \$1,000,000, the electronic telephones will operate on two of the railroad's main line four-track divisions over the 245-mi. route between Pittsburgh and Harrisburg, Pa. It is the first use of the system on Pennsylvania's main line.

By permitting a constant flow of information and instructions between train crews and tower men, the installation will create a huge communications laboratory for adapting the new system to conditions in one of the nation's heaviest railroad traffic areas. Train telephones will be installed on about 300 passenger and freight locomotives, 90 cabooses, and six wayside towers. Passenger train telephones will be installed only in the locomotive with the air whistle providing intratrain communication.

• Handicaps Removed – Pennsylvania didn't move the system onto its main line until after two years of experimental use on its Belvidere-Delaware branch in northern New Jersey (BW-Feb.26 '44,p48).

The system was developed through the pooling of resources of the Union Switch & Signal Co. and General Electric Co. Its efficiency has been improved so as to remove handicaps to its use in high static locations, such as electrified trackage or dense industrial areas, Pennsylvania officials claim.

#### Break for Power

Electric utility industry gets limited amount of material to bring systems to standards deferred by war curbs.

The first break in the stringent restrictions which have governed new electric power installations for the past three years came last week when the War Production Board allowed a limited amount of material for a supplementary power program.

There is no indication of what the new program will total in dollars, but for the first time since 1941, material and manufacturing capacity will become generally available to the electric utility industry.

Heretofore, all allocations have been tightly earmarked for necessitous situations—a generating unit to bring capacity up to scratch here, or a transmission line elsewhere to interconnect two systems and cut down line losses.

• Aim of Program—The aim now is to bring utility systems up to standards they would have met during the past three years had there been no restrictions.

This will take a long time under the limited grant of extra materials, but the Office of War Utilities will make a start by authorizing extra generation equipment on the basis of fuel savings or on the basis of the perilously low margins of reserve capacity which should be raised.

• More Capacity-It's a rule of thumb in the normal operations of the power

#### What's Happening to the Cost of Living

	Food	Clothing	Rent	& Elec- tricity	Fur- nishings	Misc.	Cost of Living	
August, 1939	93.5	100.3	104.3	97.5	100.6	100.4	98.6	
January, 1941*	97.8	100.7	105.0	100.8	100.1	101.9	100.8	
July, 1941	106.7	104.8	106.1	102.3	107.4	103.7	105.3	
July, 1942	124.6	125.3	108.0	106.3	122.8	111.1	117.0	
July, 1943	139.0	129.1	108.0	107.6	125.6	116.1	123.9	
August	137,2	129.6	108.0	107.6	125.9	116.5	123.4	
September	137.4	132.5	108.0	107.6	126.3	117.0	123.9	
October	138.2	133.3	108.0	107.8	126.7	117.6	124.4	
November	137.3	133.5	108.0	107.9	126.9	117.7	124.2	
December	137.1	134.6	108.1	109.4	127.9	118.1	124.4	
January, 1944	136.1	134.7	108.1	109.5	128.3	118.4	124.2	
February	134.5	135.2	108.1	110.3	128.7	118.7	123.8	
March	134.1	136.7	108.1	109.9	129.0	119.1	123.8	
April	134.6	137.1	108.1	109.9	132.9	120.9	124.6	
May	135.5	137.4	108.1	109.8	135.0	121.3	125.1	
June	135.7	138.0	108.1	109.6	138.4	121.7	125.4	
July	137.4	138.2	108.1	109.8	138.5	121.8	126.1	

Data: U. S. Bureau of Labor Statistics; 1935-39 = 100. \*Base month of NWLB's "Little Steel" formula.

# PON'T BUILD OR BUY UNTIL YOU'VE SEEN THIS NEW BOOK





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WRITE today for this book! It's written for people who want to know about the new construction methods and building materials, but who don't understand professional terms. To get it mail the coupon, enclosing 10¢ for mailing and postage. Or get a copy from your building material dealer. He's the local Gold Bond Representative, your friend in the building business. National Gypsum Company, Buffalo 2, New York.



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#### INSURES WORKERS HEALTH WITH

## HYGEAIRE

ULTRAVIOLET GERMICIDAL RADIATION SYSTEM

• Riding the countless dust particles in the air are millions of active disease producing bacteria – taken into the body with every breath you take.

If body resistance is high, the germs are rendered harmless. If resistance is low sickness often results.

HYGEAIRE system bombards these air-borne germs – kills them as they ride convected air currents – wipes out 85% of the chances that one of these tiny unseen foes will find you some day with your resistance down.

Executives faced with the responsibility of reducing sickness, absenteeism and maintaining production will find an able helper in ultraviolet germicidal radiation as produced and directed by HYGEAIRE System.

Phone or write General Electric Supply Corporation or Graybar Electric Company (offices in all pincipal cities) for complete information on this potent weapon that kills air-borne bacteria scientifically and at low cost.

#### **HYGEAIRE SYSTEM PROTECTS wherever people congregate**

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business that \$2 is spent for transmission and distribution equipment for every \$1 spent on generation, and OWU expects that this rule of thumb will also apply in the new program. Thus, considerable system strengthening, enlargement, and improvement are in prospect.

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Larger conductor will be installed, or additional feeders or duplicate service lines will be built. A spare transformer will be installed where the potential breakdown without it is now more important than the material used in the transformer. Service will be improved by the installation of voltage regulators, static capacitors, or circuit breakers, which up to now have been so scarce that their use in normal preventive or precautionary applications was not warranted.

• No Extra Labor-Generally, OWU will scan applications under the new program with an eye to replacement of the most inadequate or obsolete equipment and the reduction of service hazards.

Utilities in Group I and II labor shortage areas will be confined to projects which their existing labor forces can handle. No additional workers will be made available to put in new equipment not absolutely demanded by the war program.

• Priority Ratings—While the new program will be scheduled along with the existing war power program (BW-Jul. 24'43,p17) and rated similarly at AA-3, a few projects—mostly generation—will be approved with AA-5 ratings.

These will be projects in which no imperative need for the equipment can be demonstrated but where real hardship can be shown. There are, for instance, a few half-completed generators which were down-rated two years ago in the big slash of the war power program (BW-Aug.15'42,p13). Most of the material for these is on hand, so that the Office of War Utilities will allow their completion and final settlement of contracts which have been dangling for months.

• Typical Cases—In some cases, small municipal systems or industrial plants, whose requirements for small steam turbines or diesel-powered generators were most directly in conflict with the pressing marine propulsion program, have come to a point at which the financial hardships entailed in continued operation are greater than the situation can longer justify.

These instances will be cared for under AA-5 ratings. The AA-5 rating, in practical effect, will be about as good as the AA-3 rating, since all power equipment is and has been scheduled since the war power program was intensified.

## More Child Care

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3,102 units now serve 129,357 children while mothers aid war effort. U.S. increases its share of the cost.

During the school vacation period this summer more child care centers have been made available to war-working mothers.

National figures compiled by War Public Services of the Federal Works Agency list 3,102 units handling 129,-357 children. Last September only 43,000 children were enrolled.

• Ease Labor Problem—Two-thirds of these federally assisted child care projects are in areas where labor is short or stringent, and where many women have taken jobs in war plants or in essential civilian services.

Lack of child care services was a major cause for the inability of war plants to hold women workers in 69 of 116 communities surveyed by the War Manpower Commission.

• U. S. Increases Aid—Continued depletion of nursemaids' ranks by desertions to better-paying jobs, and the summer closing of schools, increased the child care problem this year, and the federal government assumed a larger share of the cost of the program.

U. S. funds allotted under the Lanham act augment local contributions and fees paid by parents (usually 50¢ a day for standard service). Federal allotments between August, 1942 (first allotment), and June 30, 1944, under the Lanham act, have been \$30,023,-271 for maintenance and operation,

plus \$2,447,441 for new construction.

Typical Setup—The Detroit project is a typical setup, where each month 47 nurscries take care of an average of 1,175 youngsters two to five years old and 30 "canteens" keep 1,000 schoolage boys and girls out of mischief.

The units are housed in 36 schools, ten churches, and ten housing projects, near factories, residences, or transportation routes. The budget for the two years ending March, 1945, is \$1,669,677, of which the federal government will pay \$1,276,338.

• Canteen Instruction—When a Detroit mother brings her little boy to the nursery, he gets a health inspection and an identification tag. Breakfast or sleep follows, and at 10 a.m. games or stories. Then a morning snack, cod liver oil, and outdoor play. There is a rest period on cots just before lunch, a nap and a sandwich and more play in the afternoon. The fee is 50¢.

Older children in the canteens have handicrafts, dancing, hobbies, books, and trips

 Guide to Jobs-Kansas City has printed several pamphlets that describe the work and location of its child centers and, in addition, tell mothers where to get war jobs.

where to get war jobs.

Kansas City operates its 15 nursery centers and 24 school-age centers between 7 a.m. and 6 p.m. daily except Sunday. The two-year budget calls for expenditure of \$737,864 of which the federal government will pay \$536,-016

New Orleans has 14 centers caring for 830 children on funds that are provided 10% from parents' fees, 43% from the city, 47% from federal grants.

• Financing in Baltimore—Baltimore, another center of shipbuilding, has



At a typical government-aided nursery in Kansas City, preschool children are amused by stories, games, and instructive devices while their parents work.



## Just Off the Press



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used no city funds, meeting its budget of \$119,216 with 45.8% from parents' fees, the rest from Lanham act funds.

Richmond, Calif., has 27 centers that care for 1,052 children. During the first year of operation it spent \$190,-801, of which \$122,480 was paid by Washington, and \$68,321 came from parents' fees.

parents' fees.

Too Many Units-Vanport City,
Ore., a war housing community of
30,000 (BW-Jun.24'44,p47), built six
nurseries a year ago but finds that it
needs only four of them, partly because
some parents are not interested.

Average enrollment has been 400, with 700 in the school-age group. Yearly expenditure is met by \$130,000 from state and county funds and \$630,000 from Washington

000 from Washington.

• Postwar Outlook—Denver has six centers and is looking for space for more as it has a waiting list of 50 children.

To care for 235 children in the past 13 months, Denver spent about \$80,000 of which the Lanham act provided \$52,112.

Denver is convinced that the program will become permanent, despite the fact that the Lanham act expires six months after the war ends, because many of the mothers who are patrons of the centers are widows of men killed in service—women who must continue to work outside the home.

## Fury in Omaha

Purchase of Nebraska Power Co. as municipal utility is proposed in midst of feud of company and publisher.

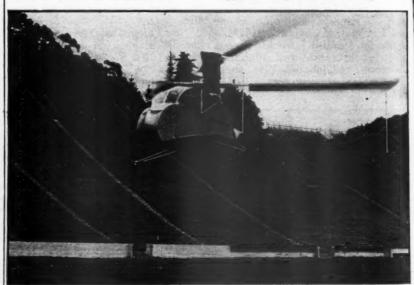
Nebraska Power Co., \$40,000,000 American Power & Light Co. (Electric Bond & Share system) subsidian with headquarters in Omaha, is in the spotlight again.

• Based on Necessity-Since the establishment of former U.S. Sen. George W. Norris' "Little TVA" in Nebraska the Consumers Public Power District as the grid development was called, has made several attempts to take over Nebraska Power.

off wi

Consumers Public Power District's interest in plans to buy Nebraska Power was based on necessity. According to most reports, Consumers Public Power has been unable to furnish a firm source of power from its hydroelectric developments on the Loup, Niobrara, and Platte rivers, and the lines connecting the hydroelectric plants to Nebraska Power's steam plant have more often than not carried N.P.C. current to meet Consumers Public Power demands.

• Purchase Barred—Omaha interests opposed the purchase, claiming to fear



#### "HOMEMADE" HELICOPTER

Hovering over the University of California stadium at Berkeley is the first helicopter to emerge from shops on the West Coast. Its designer is 19-year-old Stanley Hiller, Jr., who is associated with his father in the die-

casting firm of Hiller Industries. Built of tubular steel and fabric, the 12-ft. craft has a 90-hp. Franklin engine which drives two 25-ft. opposed rotors. Tests show that it is capable of doing 100 m.p.h., according to young Hiller who calls his new helicopter the "Hiller-copter."

### How would you use these 3 industrial electronic servants?

UNITED CINEPHONE CORPORATION, of Torrington, Conn., has developed three simple electronic devices that almost every industrial plant can - and some day will - use to advantage

The Sun-Switch turns factory or office lights off or on automatically when outdoor light rises or falls, avoiding poor work caused by bad visibility or eye fatigue.

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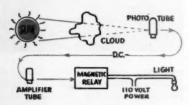
ear

It can also be used to switch on or off aircraft beacons, and outdoor lighting of all kinds.

What Is It? The "Sun-Switch" is a phototube device, in which a change

of light is used to operate a magnetic switch. The tubes are: an RCA type 930 phototube followed by an RCA 6SJ7 detectoramplifier and an RCA 6SN7-GT amplifier.

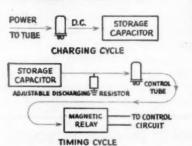




How It Works: When sufficient light strikes the phototube, its output, amplified by the following tubes, operates a magnetic relay which turns off the lights. When the light striking the phototube decreases to a preset level, the lights are switched on again. The light-level range is adjustable.

Electronic Timer: The United Cinephone electronic timer accurately time-controls operations of machine tools, molding presses, ovens, electronic heaters, photographic printing, etc. Two or more timers can be connected to provide automatic sequences. Time interval is adjustable from 0.05 to 100 seconds. Avoids hu-

man error. Easy to set; wide range; no resetting needed; hundreds of thousands of operations with virtually no maintenance.



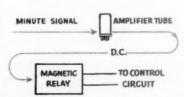
How It Works: An RCA 6J5 amplifier tube is used. It first acts as a rectifier, supplying d-c to a storage capacitor. When the time interval is "initiated" by the initiating switch, the stored energy is dissipated through an adjustable resistor. When the voltage across the storage capacitor thus drops to a preselected value, the tube supplies current to operace a sensitive magnetic relay.

Electronic Switch: For reliable switching where a tiny current can replace heavy currents or mechanical devices. Only 3/1,000,000 ampere will actuate the electron tube which operates the relay.

The small current replaces heavy currents required in some chemical processes or machine or gauging operations where a relay is actuated directly. Excellent for floatless control of liquid levels, pressureless limitswitching, and to replace clumsy.



slow, leverage systems. Operates up to 800 times per minute; has exceptionally long life and low maintenance. Widely used in industry.



How It Works: A tiny current flowing through the external circuit and through a very high resistance (1 million ohms or more) develops enough voltage across the resistance to control the current flow through an RCA 6J5 detector-amplifier tube. The tube current operates a magnetic relay.

The magic brain that powers these devices is in each case on RCA Electron Tube

#### Have you a problem?

Industrial electronics, already widely accepted, is destined to play a giant's role tomorrow. If you suspect that measuring, counting, weighing, sorting, controlling, heating, or some other mechanical or manual operation in your plant can be more accurately, efficiently, or profitably performed "the electronic way," you are probably right. Why not write to us, stating your problem, so we can refer you to the equipment manufacturer best fitted to serve you?

Meantime we will gladly mail you our 32-page, illustrated, free booklet "Electrons in Action at RCA," if you will write to RCA, Commercial Engineering Section, 647 South 5th St., Harrison, N. J.

The Magic Brain of all electronic equipment is a Tube and the fountain-head of modern Tube development is RCA.

BUY MORE WAR BONDS





RADIO CORPORATION OF AMERICA

RCA Victor Division . Camden, N. J.

an increase in power rates to provide "a fair return" on the combined properties. These interests succeeded in pushing a bill through the state legislature which prohibits "any public power district from purchasing an electric utility in the metropolitan city of Omaha."

• Sound and Fury-Soon, however, out of what apparently started as a personal dispute between power company officials and the publisher of Omaha's only daily newspaper came an effort of the newly formed People's Power Ownership Committee to have the City of Omaha take over Nebraska Power Co. as a municipally owned utility.

This private fight grew in sound and fury, but Nebraska Power Co. succeeded in cooling the ardor of the newspaper-sponsored municipal ownership fans with an injunction secured in county court. The decision was appealed, but has not yet come before the higher

court.

• Plan Direct Deal—Last week it was announced, in the midst of negotiations for a new street-lighting contract with the city, that a group of Omaha citizens is considering the formation of a nonprofit organization to negotiate for direct purchase of Nebraska Power Co. from its eastern owners.

The Omaha group is counting on the holding company "death sentence" act for a lever to force the sale.

#### HETCH HETCHY MUST ACT

San Francisco next week faces a deadline that is giving municipal officials and taxpayers plenty to worry about. By Aug. 28 the city must find some legal arrangement to sell power from its Hetch Hetchy hydroelectric plant, which has long been embroiled in difficulties arising from its doubtful status as a municipal project located on fedcial land.

The city's problem is that it has no distribution system. The only lines available are those of Pacific Gas & Electric Co., which formerly bought the plant's output for \$2,400,000 a year (BW-Jul.22'44,p22). Later, when federal courts held that private distribution of Hetch Hetchy power was illegal, the city got out of its difficulty by finding a new customer, a governmentowned aluminum plant at Riverside, Calif.

Now WPB has ordered a shutdown at the Riverside plant, and San Francisco-without a customer for its power -faces the loss of \$2,400,000 revenue annually. Taxpayers are anxiously awaiting the decision on Hetch Hetchy, while city officials are seeking a compromise-possibly a lease arrangement with P.G. & E.-acceptable to the federal court.



#### **FOR EASY STARTS**

Simple infrared heating pits in Philadelphia Transportation Co.'s storage yard (above) keep buses warm for easy cold-weather starts. Each 27x42 x16-in. unit (right) contains three 250-watt drying lamps which direct heat on its engine when a bus is parked over the pit. Unable to build more garages because of war restrictions, the transit firm rigged up the novel system to accommodate its growing fleet. This installation cost

\$3,000, operates for \$7.56 a day, and saves about 5,000 gal. of gas which is the amount that would be needed to idle engines all winter.

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#### MACY EXPANDS IN SOUTH

R. H. Macy & Co. of New York City, world's largest department store, is expanding in the South. Through its wholly owned subsidiary, Davison-Paxon Co., one of the South's outstanding stores and the second largest in Atlanta in point of retail sales, Macy's last week bought the Saxon-Cullum Co., oldest and largest store (60,000 sq. ft.) in Augusta, Ga.

The purchase, according to Charles H. Jagels, president of Davison-Paxon, reflects confidence that the South in general and Georgia in particular will hold its wartime gains after the peace. The Augusta outlet will be operated under the name of its Atlanta owner.

In the 1943 fiscal year, Davison-Paxon's sales, exceeding \$11,000,000, second only to Rich's in Atlanta, accounted for a little better than 6% of Macy's gross volume. A similar portion was accounted for by the Lasalle & Koch Co. of Toledo, Ohio, while Bamberger's of Newark contributed better than a quarter of Macy's total volume.

Lasalle & Koch was the first store out-

side New York in which Macy's obtained a controlling interest (1923), but Davison-Paxon was the first wholly owned subsidiary (1927). Bamberger's was not acquired until 1929.

#### **BUY CANADIAN VICKERS**

OTTAWA—A Canadian group headed by Roy M. Wolvin, former president of the British Empire Steel Corp. and now head of several shipbuilding companies, has bought out Canadian Vickers Co. from Losanac Ltd. which has held the stock for the Solvay interests of Europe. The purchase reportedly gives the Canadians working control of the company. The new owners will take part in

The new owners will take part in planning the postwar activities of Vickers, which are expected to include continuation of shipbuilding. The company recently obtained orders for several cargo vessels from Brazil (BW—Jun.24'44,p112), and it would probably share in Netherlands orders for similar vessels should a deal for about 30 now under discussion materialize. This is a contract originally claimed by Henry J. Kaiser (BW—Apr.1'44,p24).

#### OCD Stands By

Possibility of raids on coasts prevents release now of all but a few items of agency's vast accumulation of supplies.

As danger of air raids has waned, so has the interest of volunteers in the Office of Civilian Defense. This brings to the fore another problem of surpluses: What's to be done with the vast accumulation of supplies gathered by the OCD when coastal attacks by the Japanese and Nazis appeared likely.

Owned by U. S.—At the peak there were about 6,000,000 volunteers for whom the OCD bought \$52,327,000 worth of equipment. All but \$9,825,000 worth was distributed to states and communities.

But Uncle Sam still owns the entire lot and may call for its return or allocation at any time. The portion distributed is in the custody of state and local property personnel who are bonded and responsible for its care.

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• On Standby Basis—OCD officials report that the organization is on a standby basis since it has received no orders to disband.

Between the Rockies and Alleghenies there probably will be few more practice calls for the protective division, which takes over in the case of air raids. Along the coasts there will still be raid alerts but these are now restricted to not more than one every 90 days.

Washington takes the view that OCD cannot yet be abolished because there remains a possibility of propaganda attacks by the Nazis along the coasts, and of sabotage bombings of war plants in any part of the country.

• Few Items Released—Recent disasters

• Few Items Released—Recent disasters have given the OCD some practice. Its work in connection with the Ringling Bros. circus fire at Hartford, Conn., and the munitions explosions at Port Chicago, Calif., have been commended. On these and other occasions the OCD cooperated with the Red Cross.

Since the emergency for which OCD was created has not wholly passed, only a small amount of its equipment has been released. The items so far sold as surplus were some hospital beds turned over to Treasury's Procurement Division and sold in Chicago.

 Pumps in Demand—There is a clamor for OCD fire-fighting equipment and some of this is being released to the Army and Navy.

The OCD bought both hand and power fire pumps. It paid \$8,143,000 for 2,262,000 hand pumps attached to 4-gal. water tanks. Stirrup pumps (which

Message to textile mill owners

"Daylight with Insulux"

NOW IS THE TIME TO INSTALL INSULUX

GLASS BLOCK

SAVE 5 WAYS

- SAVE FUEL—Better insulation
- 2 SAVE UPKEEP CHARGES— Easy to clean—and to keep clean. No painting required.
- 3 SAVE MAN HOURS—Better light control insures better working conditions.
- 4 SAVE SPORAGE LOSSES— No infiltration of dust or dirt.
- 5 SAVE REPLACEMENT COSTS

  —Panels of Insulex do not rot,
  met of corrode.

Do THIS - and save! Replace wornout or faulty windows with Insulux Glass Block.

Insulux, being a hollow glass unit, has high insulating value. This reduces heat loss and condensation. And it brings a saving in the cost of air conditioning.

Panels of Insulux have other advantages, too. They provide good daylighting and full use of floor space. They guard against the infiltration of dust and dirt. They are fireproof—non-combustible. They do not rot, rust or corrode. And they are easy to clean—and to keep clean.



Insulux Glass Block is a functional building material—not merely a decoration. It is designed to do certain things that other building materials can not do. Investigate?

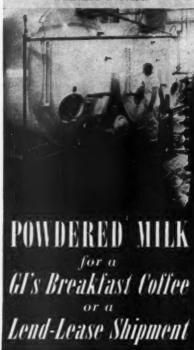
OWENS - ILLINOIS

GLASS BLOCK



THERE'S A PLACE IN EVERY BUILDING FOR INSULUX

Bestory of Pfaudler Glass-Lined Storage Tanks with a capacity of 75,000 lbs. of milk at the Todd County Dairy Cooperative, Brownerville, Minn., which bendles the skim milk output of 13 momber creameries. Tamperature rise of milk storad in these tanks is less than 2° in 16 hours.



#### PFAUDLER EQUIPMENT Serves America's "Milk Powder Arsenal"

To boost our annual milk powder production to its anticipated 700,000 pounds per year . . . and to do it in a hurry . . . meant building many new milk powder plants, each capable of handling either the whole milk or skim milk output of several nearby creameries. To Pfaudler, because of its long experience and production facilities of its two plants, came a large share of the rush orders for the all-important Glass-Lined Steel and Stainless Steel Milk Storage Tanks.

Working closely with the dairy industry for 25 years, Pfaudler is recognized as a leader in the manufacture and engineered application of equipment which meets the strict sanitary codes of that industry.

Whether you are engaged in processing a dairy product, in chemical processing, in making beverages, drugs or pharmaceuticals, it will pay you to investigate Pfaudler Glass-Lined Steel and Alloy Equipment. Write The Pfaudler Co., Rochester 4, N. Y.

A request on your company letterhead, giving your title, will bring a FREE copy of "The Glass Lining" the Plaulier magazine for those engaged in the manufacture or processing of a hard-to-handle product.

PFADLE R

ENGINEERS AND FABRICATORS OF
CORROSION RESISTANT PROCESS EQUIPMENT

are used in conjunction with buckets of water) were not bought by the OCD but by individuals and private companies. Both types have postwar value as waterusing extinguishers for homes. The stirrup pumps also are in demand as sprayers for gardens; it is doubtful that the tank pumps can resist the action of spray chemicals.

• What Services Want—The armed services aren't going to fight civilians for the hand pumps. What they want is their share of the 17,500 power pumps. These are valuable for fighting fires in combat area installations and as protec-

tion for captured towns.

So far only the Army and Navy have been given these pumps. They are important at home as extra equipment for war plants, for fighting forest fires, for additions to the equipment of small towns which have over-size war industries. Municipalities probably will be able to buy these pumps later—though some fire chiefs won't be enthusiastic about them because they lack the red paint and the dash of regulation equipment.

• Hose and Helmets—The OCD also bought 10,500,000 lengths of fire hose but the postwar utility of this is doubtful. It is an emergency product of single-jacket cotton and reclaimed rubber, hence will deteriorate rapidly. The government will be lucky to recover any of the \$3,900,000 cost.

Only items furnished air raid wardens by the OCD were helmets, gas masks, and arm bands. There is little promise of recoveries from the 4,616,000 masks and the same goes for the arm band. But there might be a small return from the 2,704,000 helmets. These are not usable on the war fronts because the are not properly shaped for full heal protection and are not made from special steel. (The OCD helmets were stamped out of old automobile fenders.) They are worth a fraction of the cost as steel scrap, or perhaps the government could sell them to the warden as souvenirs. One suggestion advise giving the helmets to the wardens since the expense of collection and shipping would be considerable.

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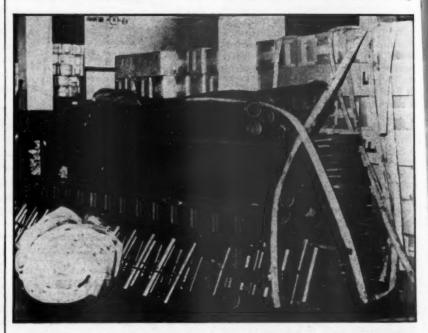
year.

• Typical Problems—The bulk of the remaining OCD equipment consists of medical supplies, stretchers, hospital cots and beds, mattresses, first-aid pouches, infant respirators. Whether sold or given to health and rescue agencies, this material will remain a national

asset.

The situation in Cleveland, Ohio, presents typical problems. Relieved of active duty, OCD volunteers in that city are worrying over what is to become of \$2,000,000 worth of U.S. material. This equipment lies idle and vulnerable to the hazards of theft, loss, and age. Much of it could be usefully employed, especially on the war fronts. A start has been made toward unfreezing this accumulation. Of 228 pieces of heavy firefighting equipment, 54 have been tagged for shipment, presumably to occupied countries.

Clevelanders are not only worried about the cost of government material tied up. The defense program is costing



Ladders, hose, and other civil defense equipment worth more than \$52,000,000 present storage problems that will soon become problems of surpluses.

Cuyahoga County about \$151,000 this year.

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• OCD's Current Job—Idle equipment is the problem of OCD's protective division. There remains plenty of work for the OCD's service sections. Their activities include sale of war bonds, car sharing, gas and rubber conservation, scrap collection, Victory gardens, recreation for war workers, preinduction training and counsel for draftees.

#### Dogfish on Top

Lowly shark takes place of big-livered soup-fins as the chief U. S. source of vitamin A. Fishermen prosper.

Once considered a pest by fishermen because of its destructive habits, the lowly dogfish shark now is the chief source of the nation's vitamin A.

• Soup-Fins Surpassed—This small member of the shark family, which ranges up to 4 ft. in length, has surpassed the soup-fin shark, supplier of 42% of the vitamin A output in the U. S. in 1943.

Up to June 30 of this year, dogfish shark livers accounted for 9.7 trillion units of vitamin A and the soup-fin shark livers but 8.6 trillion.

• \$1,520,000 Value—The United States Fish & Wildlife Service reports that dogfish shark fisheries at Seattle, Wash., purchased 2,816,000 lb. from Jan. 1 to June 30. Valued at \$1,520,000, the dogfish purchases were about four times the total of soup-fin shark livers purchased in the same period.

The rise of dogfish liver purchases continues to reflect the decline in the soup-fin shark industry that became evident last fall because of the depletion of this large-livered shark off the Florida and West coasts (BW-May6'44,p39). Purchases of soup-fin livers fell from 685,000 lb. in the first six months of 1943 to 369,000 lb. in the first half of 1944.

• New Income—Even larger catches of dogfish shark are expected in the remaining months of this year. A continued decline is forecast in the catches of the soup-fin shark.

And the once-spurned dogfish is proving a source of new income for many fishermen. So lucrative, in fact, that boats normally engaged in other industries now hunt them down. The livers weigh from 1½ lb. to 3 lb. depending on size of the shark.

In the first months of 1944, Seattle fishermen were paid an average of 54¢ per lb. for dogfish shark livers, as compared to 38¢ per lb. in 1943.

Don't toy with
SAFETY!

AUTO accidents are innocent fun when staged by children at play. In real life they are costly and tragic—and still much too frequent. Though you drive less under gasoline rationing, you still face all the hazards, and the threat of disastrous loss an accident can cause. You still need the protection insurance can give—and you can now obtain it at low wartime cost.

Sound, economical protection is assured by Hardware Mutuals policy back of the policy—a way of doing business that makes your interests our first consideration. It means nation-wide service by experienced, full-time representatives. Its

basis is good management — and a careful selection of risks that has returned substantial dividend savings to policyholders. It means prompt and sympathetic settlement of claims without trouble or red tape.

In other types of insurance also, dividends can represent important savings. For example, if your home fire insurance is not in line with today's increased property values, you may be able to increase your coverage at no extra cost—because Hardware Mutuals dividend savings to home owners, as well as to automobile owners, have always been substantial.

Take advantage of the savings and service you'll gain through the policy back of the policy. Let the Hardware Mutuals representative help you plan the full insurance protection you need.

FEDERATED HARDWARE MUTUALS

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HARDWARE MUTUAL CASUALTY COMPANY

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CASUALTY AND FIRE INSURANCE

#### AGRICULTURE

#### Pills for Planting

Mechanization of sugar beet farms advanced by pelleting of seed and use of machine for thinning out plants.

Experimental mechanization of the sugar beet industry is progressing, with proved devices ready to hit the in-dustry in waves once the war is over and manufacturers are free to supply the market. This has political as well as economic significance because it should reduce the beet sugar indus-

try's reliance on tariff protection.

• "Pelleted" Planting—Of two recent developments, one will not have to wait, should experimental work this year show it adaptable to the entire

This is the "pelleting" of sugar beet seed to form smooth pills that will glide from the hoppers of mechanical planters at even intervals and allow the farmers to take full advantage of another improvement only recently developed, the segmenting of seed into single seed germs.

• Even Spacing-Sugar beet seeds in nature come in woolly, irregular balls, each inclosing several seed germs. Plants from such seed come up in clumps, so close that surplus plants must be removed by hand-slow, back-

breaking work.

Machines developed three years ago by Roy Bainer, a U. S. Agriculture Dept. experimenter, now successfully crack the seed into single segments, which produce single plants and so lessen the work of thinning, and bring it within the province of machines. However, these single segments still are woolly, irregular-shaped bits that may hang up in mechanical planters, or fall out in groups, thus resulting in irregular spacing of plants in the rows. · Mechanical Coating-M. J. Buschlen, agricultural supervisor of the Farmers' & Manufacturers' Beet Sugar Assn., composed of growers and processors in Michigan, Ohio, Indiana, and Wisconsin, thought up the answer to that one. If the single seed segments each could be inclosed in a beneficial and inert material-something which would melt away easily in the ground once planted, and which for planting would make smooth "pills" or pellets of the seeds-the problems of spacing could be largely overcome.

Buschlen was successful. Mechanical coating made white pills out of beet seed. Preliminary field tests last year indicated that an almost absolutely smooth, even flow of seed could be secured. This spring, hundreds of acres of pelleted seed were experimentally planted all over the beet sugar areas from Ohio to California. • Soil Problem-Western companies still regard the process as experimental, one question being whether the pelleting material, which easily melts from around the seed in damp midwestern soils, and thus permits emergence of the seedling, may not have more restraint in the dry western soils.

Experimentation so far, however, is

encouraging.

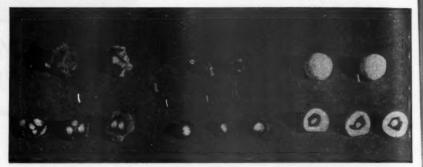
• Machine for Thinning-Even with perfect seed stands (something never achieved save perhaps in an experimental way with this spring's "pelleted" plantings) the beet farmer must over plant, to take care of failures to ger-minate. So he probably will always have the problem of thinning out his

Plants from single seed, however, stand far enough apart to be "knocked out" by machinery. In this connection, the big development of 1943. 1944 is the discovery that a cottonchopping machine made in Dallas can readily be adapted to thinning stands from singled beet seed.

• Hoe With a Seat-This is the Dixie cotton chopper made by the Dixie Cotton Chopper Co. characterized by the company as a "hoe with a seat on

As the tractor-drawn chopper (up to three machines can be drawn by one tractor) moves along the rows, a set of four crooked knives that look like reversed swastikas, descend into the soil, and hook out the unwanted plants.

The knives can be set to sweep the



Rows of whole and cutaway sugar beet seeds demonstrate (left to right) how they're divided into single germs -to save thinning—then are coated with an inert material that makes mechanical planting possible. With three tractor-drawn thinning machines (below) four men can weed out the excess beet plants in six rows during each sweep of the fields.





## 1001-11PPING ... 5 TIMES AS FAST

IN the brazing of carbide tool tips, a large automobile and aircraft manufacturer formerly required 5 men at 8 hours each, or a total of 40 man-hours per day... Today, with TOCCO, 1 man does the same amount of work in 8 hours ... Saving 32 man-hours per day.

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TOCCO brazes tool tips with the same efficiency that it does a multitude of heat-treating tasks. At the push of a button, it heats standard size tool tips to brazing temperature in 10 to 30

THE OHIO CRANKSHAFT COMPANY

seconds for a tight, uniform braze. Clean, cool and compact, the TOCCO machine can be located handy in tool room or production line to speed output and minimize motions.

#### **NEW LOW-COST TOCCO**

The 7½ K.W. TOCCO JR. shown above is ideal for brazing tool tips and heat-treating many small machine parts. Power unit can be located under a bench, out of the way. Detachable work unit can be mounted on work bench as shown above. Like larger TOCCO units, it is of rugged motor-generator type, assuring dependable, low-cost operation. Fully described in Bulletin 16A, free on request.

DEPT. W. . CLEVELAND 1, OHIO



HARDENING .. BRAZING
ANNEALING .. HEATING





DAMAGED SECTIONS FAST ON OUR TRAILER BODIES...

LESS THAN TWO MAN-HOURS PER PANEL," SAYS T. G.O'BRIEN, Fleet Superintendent for Hogstrom Food Stores

Extra pay-service hours made possible by Lindsay Structure trailer bodies mean extra advantage in coming post-war competition. In developing your post-war plans, consider Ls. Its high strength-weight ratio results in greater pay loads, reduced operating costs. Body designs are modern, streamlined, and distinctive. Local warehouses, located at key points throughout the country, will make fast delivery of bodies or replacements possible.

With Lindsay Structure, you can rehabilitate your trailer fleet in these three ways:

1. Mount new Ls bodies on your old chassis

2. Build new Ls bodies on new standard chassis

3. Add to your fleet with new light-weight Ls trailers

Consult the Lindsay Structure Fleet Engineering Service for the solution to your fleet problems. Send drawings and data to Lindsay and Lindsay, 222 W. Adams St., Chicago 6, Illinois; or 60 East 42nd Street, New York 17, New York; Lindsay Structure (Canada) Ltd., 307 Dominion Square Bldg., Montreal.

LINDSAY nts 2017629, 2263510, 2263511

row at any interval running from 4 in up to 20 in.

Every large beet sugar processing company in the U.S. has some of the machines for experimental purposes, and more than 1,000 are in use under such auspices, besides hundreds that have been sold to individual beet growers.

#### Record Milo Crop

Year's harvest may total 125,000,000 bu. Many farmers cut cotton acreage as yield from maize is alluring.

Spotted droughts throughout the Southwest have cut grain sorghum yields in some counties, but sufficient milo maize has already been harvested to assure a record-breaking crop of 110,000,000 bu. to 125,000,000 bu. depending upon the return from late crops which won't be harvested before October.

• Crop Is Maturing—In the big yield areas of Texas, producing an estimated 80,000,000 bu. in 1944, an increase of 15,000,000 bu. over 1943, some of the crop is in the granaries, most of it is now maturing on the stalk, and much of it is yet in the heading stage with yield to be determined by rains.

Labor shortage and high cost for farm labor have caused a decided swing from cotton to milo in Texas and in some of the old South-Georgia, Alabama, and Mississippi-where milo has been planted in large acreage for the first time. In Texas, which usually produced 4,000,000 bales a year before crop controls were invoked, cotton estimates for the 1944 crop are 2,450,-000 bales, 373,000 bales less than the 1943 crop and 823,000 bales less than the average annual production in this state from 1933 to 1942.

• Drop in Cotton-Many farmers, both those planting all-cotton as well as diversified crops, have switched to milo and other grain sorghums, for the cash return per acre compares favorably with cotton. The OPA ceiling on milo is \$2.08 a cwt. and the crop is more certain than cotton and is harvested with much less labor. Most mile is now harvested with tractors and combines. Two men with a tractor, a combine, and a truck can harvest 25 acres (60 bu. to 100 bu. an acre) in twelve hours.

Merely cutting the heads from the stalks by hand was a 25-man job before the straight-necked dwarf-type milo was developed for combine harvesting (BW-Mar.20'43,p55).

Cottonseed oil mill operators are



Even those whose everyday work is with plastics recognize it as a complicated industry. This message is written to the businessman, bis engineering and production aids, to whom the use of plastics is but one detail in a long list of production problems. It is a simplified explanation of why Durez phenolics are requisitioned for dozens of purposes by bundreds of leading manufacturers and successful merchandisers.

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Versatility is the outstanding property of Durez. Check off a few of its characteristics. There's light weight, yet tensile strength is very good. There's impact strength which can take plenty of punishment. There's the fact that extreme temperatures affect neither inherent properties nor dimensional stability. There's powerful resistance to the corrosive attacks of chemicals,

oils, mild acids and alkalis. And, there's a series of electrical properties which make Durez a first choice for that industry.

There are Durez applications almost everywhere. A complete display of Durez molded parts and products would form an impressive exhibit of outstanding design and performance characteristics. In the factory, office and home, in transportation equipment of every kind, in radio sending and receiving equipment, in fact for thousands of items Durez is used to give extra advantages and greater utility.

The versatility of Durez is also marked in molding methods. Wartime molding developments give promise of widely extending the advantages of Durez to many new uses, in many new markets.

In the versatility of Durez may lie at least part of the answer to your production and merchandising problems. We suggest that now is the time to start talking it over with your custom molder. And we are always ready with valuable data and personal assistance in answering plastic materials questions. Write to Durez Plastics & Chemicals, Inc., 28 Walck Rd., North Tonawanda, New York.



PLASTICS THAT FIT THE JOB



# "In 1 day, that SIMONDS man saved us 14 hours per cut and gave us 50% more blade-life!"

That's the report of a warplant which took advantage of a current Simonds offer to send an engineer to survey cutting operations.

Here, the operation was power-hacksawing... in which a blade-test resulted as follows: First blade cut 3"deep in 10½" x 7½" steel stock, taking 1½ hours, when blade dulled. Then a Simonds Red End Molybdenum Blade—correctly tensioned to the job by Simonds new method—finished an entire 7½" cut in 1 hour, 46 minutes. So why not have Simonds job-tensioned Red End Blades tried out on your own work by a Simonds engineer? Call your Supply Distributor, or write to:



deploring the decline in cotton acreage and production since they see a shortage of cottonseed for vegetable edible oils (commercial baking shortening) and for cottonseed cake used for stock feed.

• Milo to Help Out-Offsetting the latter loss, the increased crop of milo will aid cattle and sheep men, poultry raisers, and other feeders who have previously used large quantities of corn. Milo has also been an important source of brewer's mix to replace hominy grits since corn has been scarce.

#### MEYER LEMON THRIVES

Considered particularly good for lemonade and pie due to its fine flavor, the Meyer lemon, discovered in Indo-China some 30 years ago and adopted by Texas growers, developed the handicap of staying green. Efforts to color it artificially were futile by reason of its perishability.

Ten years ago the growers of the lower Rio Grande Valley began building a local market in the state and this year are selling a record crop of between 3,000 tons and 4,000 tons. California regards the fruit as an interesting novelty—but it sells at higher prices in Texas.

#### Too Wet, Too Dry

Soybean yield reduced as much as 17,000,000 bu. by wet planting season and unfavorable summer weather.

Weather has conspired against the soybean this year. The spring was to wet for planting. The summer has been too dry for growth.

• Dismal Prospect—Result is that the government's crop report on Aug. 1 condition indicated a yield of 178,000,000 bu. (compared with 195,000,000 bu. in 1943), and drought undoubtedly has cut the prospect still further since the date of the federal forecast.

This versatile legume has more uses than a Boy Scout knife, but the top need is oil for oleomargarine for civilian, military, and lend-lease use. On the average, salad oils, margarine, and shortenings contain 36% soy oil. It comprises one-ninth of the edible fats and oils available.

• Where It Goes-Distribution of the oil processed from the 1943 crop is estimated by C. T. Prindeville, vice-president of Swift & Co., and former



#### BARGAIN IN EGGS

On the W. H. Mallory farm near East St. Louis, hogs give the War Food Administration a negligible lift in its campaign to dispose of an unprecedented egg surplus (BW-Jun.10'44, p41). Since apparent collapse of WFA's program to divert its eggs to

livestock tankage (BW-Jun.24'44, p52), midwestern farmers are getting eggs for hogs at only 5¢ a doz. These cost the government its support price of 27¢ a doz.—a total of \$55,000,000 to buy up 22% of the nation's production during the first half of 1944—to maintain price levels for producers and to relieve markets.



## ARE YOU IN This Spot TODAY?

Busy as you may be, you're out on that old limb unless you are now making real progress in solving your post-war prob-



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lems of reconversion. If these problems involve precision parts, McQuay-Norris can help you. For thirty-four years, we've been making automotive and industrial precision parts...parts large and small... parts hardened and ground ... parts of all types. Our clinical re-

search, experience in metallurgy, design, machining, lapping, plating, grinding are available to you.

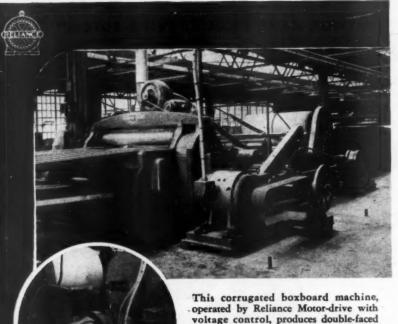


## McQUAY-NORRIS

MANUFACTURING COMPANY

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PRECISION WORKERS IN IRON, STEEL, ALUMINUM, BRONZE, MAGNESIUM



and double-wall corrugated board in a continuous operation direct from mill rolls of paper.

...does your work require FREQUENT STARTING, STOPPING and SPEED CHANGES?

Acceleration of this corrugated boxboard machine from zero to full speed is attained in less than 10 seconds through use of Reliance Motor-drive with voltage control. By comparison, at least two minutes were required with the types of mechanical controls formerly used. Saving in stopping time is even greater. Proper tension is maintained at all times and the speed of all sections synchronized to avoid breaks or damage to the material. Both quantity and quality of output are increased through the smoother, speedier response provided by this new method of control.

When there's a job of machine design to be done, or you are looking for ways to improve production methods, invite a Reliance man to sit in. His specialized knowledge of electric motor-drive can be a big help.

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RELIANCE MOTORS

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The remaining 300,000,000 lb. will be channeled into the most urgent in dustrial uses, and conserved to rebuild depleted reserves.

• Leader in Ohio-Last year's acreage was 10,820,000, or 15 times that of decade ago when the soybean crop was an insignificant 13,500,000 bu. with a value of \$12,000,000, as compared with the \$350,000,000 value of the 1943 crop at the guaranteed price of \$1.80 (Bottom price of 47¢ was recorded in

This production has lifted this crop to fourth place in the table of harvest value, but as a source of cash income to Ohio farmers, it led all others last year, bringing them \$31,278,000 to wheat's \$26,741,000. Producing states rank in this order: Illinois, Iowa, Ohio,

 A Dozen Varieties—Studies have narrowed the seed stock to about a dozen varieties, with emphasis on oil content and early maturity. Later varieties contain more oil, but rains are likely to interfere with harvesting, causing waste.

A bushel of the beans, which look somewhat like peas, produces about a gallon of oil, weighing 7½ lb. and worth around 12¢ a pound. The remaining meal has a delivered price, based at Decatur, Ill., of about \$50 a ton.

• Protein Feed-About 90% of a production of 3,250,000 tons of soy meal will be used as protein feed for livestock and poultry. The rest will go into human foods ranging from noodles, grits, and cocktail crackers to "extenders" in sausage and flakes to aid protein and stabilize the foam of beer.

In its ordinary state, soy oil can be used only in the manufacture of soft soaps, but hydrogenated to a sufficiently high melting point, it is raw material for any soap. Capture of tropical areas by the Japanese sent soapmakers to other sources for about 20% of the traditional soap-making materials, palm oil, coconut oil, tallow, and the lowerpriced harder fats.

• Industrial Uses-The high protein content of soybeans (40% to 50%) makes them advantageous in the manufacture of the alkyd resins for paints and varnishes, linoleum, oilcloth and coated fabrics, sulphonated oil for textile processes, rubber compounds, and for cutting, grinding, and turning.

One of the larger industrial uses has

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The list of uses is extended almost andlessly through the paper, glue, and plastics industries. The Ford Motor Co. developed an upholstery fabric from the fiber, a line of development which has been taken over by the Drackett Co. of Cincinnati.

A milk from soybeans has a high nutritive value, and its lecithin has wide use in food and confections as an emulsifying and stabilizing agent.

#### More Broomcorn

But shortage of handles is likely to mean scarcity of brooms. Military purchases cut supplies for domestic use.

Broomcorn cutting is in full swing in Illinois, Kansas, Oklahoma, Texas, Colorado, and New Mexico, major producing states, and the harvest is expected to yield 63,300 tons, as compared with 32,500 tons in 1943 and an average annual-yield of 39,700 tons for the period 1932-41.

• Shortage Likely—Nevertheless, there is a likelihood that American housewives will find brooms scarce in a few months, unless the broom handle shortage problem is solved soon. Broom manufacturers use 1,000 wooden handles for each ton of broomcorn, which would mean 63,300,000 brooms could be produced from the 1944 corn harvest—if handles were available.

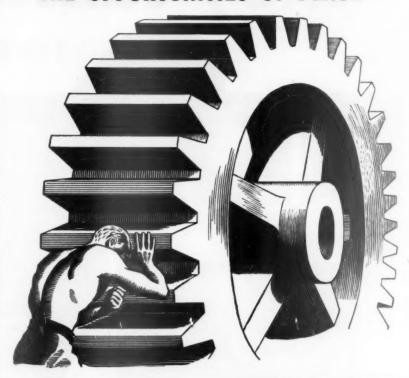
Peacetime normal production of handles is about 60,000,000, but a year ago output began dropping sharply. Handle manufacturers are governed by price ceilings ranging from \$40 to \$65 at housand in carload lots, prices varying according to the species of wood—southern pine, western fir, basswood, poplar, beech, maple, oak, ash, or hickory.

• Price Competition—Latest outlook is that only about 35,000,000 handles will be produced this year. Reason is that lumber manufacturers, particularly in the Pacific Northwest fir region, are lured by the higher price ceilings on lumber, consequently are not diverting as much of the "square" edgings to handle factories.

Manufacturers that have their own woods operations are handicapped by the general manpower shortage.

• Government Buying—Military services have entered into the market as heavy buyers of brooms. Government requirements are taking 10,000,000 handles between now and Dec. 31, and recently the Navy came into the market for 2,080,000 additional brooms.

THE SINEWS OF WAR
THE OPPORTUNITIES OF PEACE



#### NORTH CAROLINA IS BACKING THE ATTACK

WITH: Tens of thousands of her sons and daughters in the Armed Forces; Hundreds of millions of dollars in War Bonds;

Busy factories running 24 hours a day—textiles, munitions, aviation, ship-yards, plywood, pulpwood and other forestry products;

Hundreds of mica mines...feldspar...kaolin...lithium...tungsten;

Fertile fields from which come cotton, one of the principal sinews of war, precious fat-yielding peanuts and soya beans, and a host of other victory producing products;

Mighty harnessed rivers from which flow hydro-electric power to turn the wheels of Industry not only of North Carolina but also of neighboring

All these vast resources, when War's end comes, will be returned to the production of civilian goods. New technologies developed during war will be utilized to make amazing new items for the World of Tomorrow. Those planning for this new era will do well to turn their eyes toward North Carolina, the State of Industrial Opportunity.

Plentiful raw materials, equitable year-round climate, stable labor, excellent

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tor information developed for your particular needs. 3245 Commerce and Industry Division, Dept. of Conservation and Development, Raleigh, North Carolina. transportation facilities and a geographic location placing North Carolina factories overnight from the largest consuming markets are basic factors that make for profitable operation.

NORTH CAROLINA

## They came out on

TO DO A "NEXT- P















A DELICATE JOB! Some parts of superchargers travel faster than the speed of sound. Every part must be perfectly balanced and fitted.

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EVERY FORTRESS NEEDS FOUR.4. to feed air to oxygen-hungry motors at high altitudes.

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## T-possible" war job!









How Allis-Chalmers Engineering put women work Mass-Producing what had been virtually a Master Machinist's Product—

FLYING FORTRESS SUPERCHARGERS!



No Plant! Not enough men! All Allis-Chalmers had when it undertook the "impossible" job of mass-producing precision-built Fortress superchargers was a plot of land and engineering imagination and experience gained from supplying the world's largest line of major industrial equipment.

Yet, within 8 months, this "know-how" built a new, efficient plant—simplified many difficult jobs—helped thousands of women become machine operators, inspectors, testers! Today, this plant (with 60% women employees) is turning out superchargers in great quantity!

#### What will YOU want to build?

We're adding daily to the broadest industrial engineering experience in the world . . . are adding such things as the revolutionary gas turbine to our list of 1600 products. No matter what your manufacturing problem—it will pay you to consult Allis-Chalmers!

ALLIS-CHALMERS MANUFACTURING CO., MILWAUKEE, WIS.

#### VICTORY NEWS

How to Train Women Workers! In conjunction with the U. S. Air Forces, Allis-Chalmers has produced an educational movie, "Woman Power," showing how women with no previous training or experience, were taught to perform all of the intricate jobs at Allis-Chalmers' new supercharger plant.

The movie shows how to train women war workers, how to provide for their comfort, health and happiness in a factory job. It will be loaned to management and supervisory groups faced with the necessity of adapting woman power to manpower shortages. Write or wire Allis-Chalmers, Milwaukee, Wis.

More Help For "Sink-Float" Plants: To facilitate wet screening and dewatering, Allis-Chalmers has designed a new End-Tension Deck for Low-Head Vibrating Screens.



New deck construction assures uniform depth of product and maximum use of screen surface for more efficient operation. Write for Bulletin B-6321.

Electronic Giant By A-C: Big factor in breaking the aluminum bottleneck after Pearl Harbor was the Mercury Arc Rectifier—the world's biggest electronic device—introduced to America in practical form by Allis-Chalmers.

In one simple operation, the A-C Mercury Arc Rectifier converts alternating to direct current, the electric power needed for mass processing of aluminum, other vital war metals. Helps keep U. S. plane production on schedule!

FOR VICTORY
Buy United States War Bonds

argest Line of Major Industrial Equipment

CHALMERS

#### FINANCE (THE MARKETS-PAGE 118)

#### **OptionsPickingUp**

Puts and calls are gaining favor as investors endeavor to avoid losses and to escape high taxes on quick market profits.

Stock-option contracts, commonly known as "puts" and "calls" and for years an important adjunct to stock market trading in Europe, are coming into their own in this country. More and more investors are turning to these contracts, for numerous reasons, including limiting possible trading losses, insuring collection of paper profits, or escaping higher taxation on quick profits. • Started in London-Use of puts and calls in security trading abroad can be traced back to 1694, or 80-odd years before a leading group of London stockbrokers, tired of wandering all over the city to transact business, finally got together at Jonathan's coffee house and organized the London Stock Exchange, the world's first modern-type stock-andbond trading mart.

The use of puts and calls in the United States never became as wide-spread or as integral a part of stock trading technique as in Europe. This is partly because of the early overstressing of their speculative or plain gambling potentialities, rather than the "insurance" function for which they were originally designed abroad. For many years their use by clients was frowned upon by many conservative financial in-

terests.

• Educational Drive—Nevertheless, in recent years responsible dealers have required that put-and-call contracts they handle as brokers (generally supplied by holders of large blocks of stock) be guaranteed by New York Stock Exchange members. The Put & Call Brokers & Dealers Assn., Inc., has been endeavoring to educate the public in the proper use of stock-options.

There are many legitimate uses for puts and calls, but there has been a widespread belief that these contracts were too complex for the average investor and that their use should be left to the experienced Wall Streeter.

• What They Are—Actually, there is nothing mysterious or complex about puts and calls. They are merely agreements, negotiable in form, in which the writer of the contract, for a sum of money paid in advance, cedes to the buyer the right to demand within a

specified time the completion of a purchase or sales contract.

In the case of a call, the contract gives the holder the right to buy, if he wishes to take advantage of his option, certain stock at a fixed price before a specified date. A put, on the other hand, confers on its holder the right to sell specified stock under the same conditions.

Others More Complicated—Two varieties of puts and calls are the "spraddle" and the "spread." They give holders the right either to sell or to buy the stock involved but are more expensive to pur-

chase than plain puts and calls and are more suited for use by expenenced traders.

All stock-option contracts cover 100 share lots and are generally written for 30, 60, or 90 days. The 30-day options cost \$137.50, out of which the seller pays the put-and-call dealer a \$12.50 commission, but there is no set price for the longer options. Purchasers of more than 30-day contracts are paying fees ranging from \$150 to \$312.50.

• Depends on the Market—There are times when puts and calls are very scarce, and this factor is one of their disadvantages. Calls, for example, may be difficult to obtain because of the large demand and the limited supply available, when the market is moving higher rapidly, while in rapidly declin-

#### How "Puts" and "Calls" Work

This is the way "puts" and "calls" (stock-option contracts) operate.

Take the case of a conservative

investor who occasionally likes to trade in the market. He has come to the conclusion, for various reasons, that a certain common stock at \$50 a share has definite appreciation possibilities, and he picks up 100 shares.

• Wants Protection—He thinks that his appraisal of the stock's future market action is a correct one. But he's not entirely sure, and he would like to protect for a time his \$5,000 investment. Therefore, he wastes no time in also buying a put contract for \$200 which guarantees him a selling price of \$47 for his stock, or \$3 under its cost, for the next 60

This "insurance" has raised the cost of the investment to \$5,200 but he has assured himself a price for his stock of at least \$4,700 for 60 days.

It may subsequently turn out that this investor made a blunder in buying the stock when he did for within 60 days it has dropped to the \$42-level. However, he doesn't have to accept this price for his holdings. Instead, he exercises his option to sell his stock at \$47 and cuts the \$800 loss he would have otherwise faced down to \$500.

• Lets Option Lapse—But suppose he had been a good picker and the end of 60 days saw his common selling at \$60 a share. In that event, he would merely let his selling option lapse, collect his profits of \$10 a share by selling his stock in the market, and then see his gains reduced only \$2 a share as a result of his earlier purchase of "insurance"

to take care of a possible loss. Assume, however, that at the start he wasn't quite sure that the present was a good time to buy his chosen common even though at \$50 it appeared a good buy. Perhaps he knows of a possible development ahead that might give him the chance to pick up his shares later at a much lower price. But he's still not certain this will happen or that some good news won't send it to higher rather than lower levels. But he is sure that he would like to buy 100 shares at a price of around \$50.

• Provides Leeway—A call contract in that case would provide the answer

to his problem.

For \$137.50 he could buy a 30-day option on the stock at \$53. Then if at the end of that period it is selling above \$53 he can exercise the call he owns on the shares; or he can let it lapse, if it is below the \$53 level, and buy the stock cheaper elsewhere.

To provide another example of the operation of puts and calls, consider the dilemma of an investor with large paper profits on stock held for only three or four months. The stock is

as high as he thinks it can go; yet if he sells now the profit will represent a "short-term" capital gain and taxes on it will be high.

• Savings on Taxes—Here a put would have value, both as a tax-saving device and as a clincher of paper profits. Such a contract, for the 60 or 90 days necessary to change the profit into a "long-term" lower-taxed capital gain, probably could be purchased at a price much less than the resultant savings.



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That obstacle is the sum total of nonproductive costs loaded into the price of goods by inefficient control and accounting methods. It's the dragging, wasteful paper work in offices and plants which adds to cost without adding to value.

#### WORK SIMPLIFICATION STUDIES HAVE SHOWN THE WAY

Many companies are just beginning to discover the staggering size to which these non-productive costs have grown. And many have already learned that these costs can be cut just as direct manufacturing costs were cut through modern production line methods.

Work Simplification studies by Stand-

profits, more postwar jobs?

Standard's control systems are now being produced for customers in war industry and government. But preparatory studies in your business NOW may help you plan ahead for greater cost-saving efficiency, Would you like to see some actual case studies? Write for a sample Formcraft Digest and check list.

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ing markets puts are often hard to find.

The range between the market price and the option price of the stock covered when the contract is written also varies depending upon market conditions.

Recently, however, 30-day calls on U. S. Steel common, for example, were available at \$3 above their price on the Big Board and puts \$3 under, on Chrysler at \$3.50 and \$3, respectively, while Anaconda options were obtainable at a differential of 25¢, either way.

 Not a Short Cut—Stock-options can be used as a means for highly speculative operations. Nevertheless, the writers of such options watch their own interests carefully, and many speculators have found to their sorrow that puts and calls offer no quick short cut to wealth.

It would seem, perhaps, that the seller of puts and calls bears all the risks and benefits only to the extent of the premium he receives. However, that couldn't be the case since the put and call market would have long since ceased to exist.

• There Is Some Velvet—The takers of option-money, the dealers say, are usually persons of means with substantial blocks of stocks who are willing to sell portions at a price above the market prevailing when the contract is written

or increase holdings at under market levels.

Also, the premiums they receive improve their per-share price in the case of any stock received or delivered as a result of the exercise of options and, of course, they are in the velvet when options are allowed to lapse.

#### DRUG UNITS MERGED

American Home Products Corp., one of the nation's leading business expansionists in recent years (BW-Apr.15'44,p80), has just completed another important step in its plans for integrating operations of its many subsidiary units by merging five of its largest proprietary drug subsidiaries into a single operating company, the Whitehall Chemical Co.

The companies involved in the consolidation—Anacin Co., BiSoDol Co., Larned Corp., Anacin Mfg. Co., and Kolynos Co.—reported domestic sales in excess of \$17,000,000 last year.

All management functions will be consolidated to eliminate any duplication in their manufacturing, selling, advertising, and office facilities. The parent expects a beneficial pooling of new processes and production knowhow, laboratories, and warehouses.



#### BANKERS BOOST 4-H

George J. Sluyter, chairman of the New York State Bankers Assn.'s agriculture committee, presents the group's first 1944 award for 4-H Club members to Leander Glover, Jr., of Suffolk County. The award, witnessed by Prof. Albert Hoefer, state 4-H leader, marks the first presentation of the association's new green and white felt insignia (insert) which replaces for the duration the usual gold, silver, and bronze pins. Glover's badge is one of 55,000 being awarded this year in New York state by the bankers' organization. That's a 100% increase over 1940 and a rise of 5,000 since last year—due partially to useful wartime interest in Victory gardens.



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#### 1. Will I see important news events while they are happening?

Yes, immediately in the city in which the news event transpires. And distant events - when cable or radio relay networks link up our large cities. Until such time, motion picture newsreels will be rushed to your local Television station by swift planes and will be shown at once or held for regular newscast periods.

#### 2. Will I see famous stars of stage, screen and radio?

Yes. In the past 3 years, hundreds of the great names of the entertainment world have been tested for Television. Every week brings new faces to DuMont's Station WABD, anxious to explore the thrilling possibilities of this great new medium.

#### 3. Will I get "local news pictures" on my Television Set?

Yes, indeed, DuMont has designed "pickup trucks" for fast eye-and-ear coverage of everything that goes on in your community. As portable video cameras scan the parade passing 5th and Main, it will appear on your DuMont home receiver. You'll watch for your friends in style shows and amateur productions, graduations, street interviews, quizzes and other contests, inspections of crops, gardens, and new construction. You'll visit dedications, patriotic and political rallies, county fairs, fires. You'll take wonderful shopping tours - without leaving your favorite armchair.

#### 4. Will I get big sporting events free?

Yes, national advertisers are already seeking options for telecasting the World Series, Madison Square Garden attractions, the races, football classics, etc. Because several Television cameras will be employed, you'll enjoy several "best seats" at each event.

#### 5. What educational programs will Television offer?

Television will make education as exciting as a mystery adventure. Well-known scientists and engineers will take us on tours of great industries, mines and utilities, will entertain us in their laboratories. We shall enjoy conducted tours of art galleries, planetariums, museums, 2008, aquariums, historic sites and national parks. We shall sit in Congress, political conventions, town hall meetings and courts. We'll visit automobile and aviation shows, hospital clinics, kitchens of famous chefs, Army and Navy maneuvers, model farms and lecture halls.

#### 6. Will I have to look at a parade of advertised products?

Television's commercial sponsors will mix a lot of entertainment with very little sales talk. For some time over Station WABD, DuMont has cooperated with national advertisers in developing techniques for putting product demonstrations and advertising messages high among the truly entertaining features of Television. They have many surprises in store for you - very pleasant ones.

#### 7. Will I receive pictures in full color?

Don't expect them soon. Engineers in many laboratories - including DuMont's are giving their days to war work and their spare time to the development of natural color telecasting. Truthfully, color transmission is still in the laboratory stage. It has too much flicker. It stands today where black-and-white telecasting stood when mechanical scanning was abandoned for the infinitely more rapid and reliable electronic scanning. Commercially practical color telecasting will probably be achieved by methods undreamed today . . . but how or when is anybody's guess.

#### 8. Will I get standard radio programs on my Television Set?

Not unless you own a combination Television-Radio Receiver. A separate unit is required. Several new-model DuMont Television-Radio Receivers will provide Television, standard AM and FM (Frequency-Modulation) reception and an excellent phonograph record player. DuMont's impressive pioneering achievement in Television assures you of the very finest in electronic engineering and cabinet artistry . . . of unique performance in your peacetime Television Set.

Precision Electronics and Television

ALLEN B. DUMONT LABORATORIES, INC., GENERAL OFFICES, 2 MAIN AVE., PASSAIC, N. J. TELEVISION STUDIOS AND STATION WABD, 515 MADISON AVENUE, NEW YORK 22, N. Y.

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By doing this, you'll be sure of cash to reconvert, rebuild, re-equip ... buy other plants ... buy machinery and equipment ... finance development costs, sales expenses, advertising ... meet tax or renegotiation payments ... and without waiting until wartime assets become liquid ... or until the income from civilian production is flowing in.

Don't be left standing in line for the cash you'll need: line the cash up now! Phone, wire or write Commercial Credit Company, Baltimore 2, Maryland. You'll get the prompt attention the situation requires.

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Capital and Surplus More Than \$65,000,000

#### Streetcar Snar

Federal judge will rule Sept. 18 on move to reorganize Chicago traction lines privately or as city-owned system. orface lin 927. Since th

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After years of fumbling to unrave the financial snarl in which its conglomeration of streetcar, elevated, and bus lines has been tangled since almost as far back as the memory of the oldest living inhabitant, Chicago hopes—none too confidently—for decisive action Sept 18.

Two Proposals—Federal Judge Michael L. Igoe then expects to give a decision that may throw into bankruptcy the Chicago Surface Lines—the nation's largest streetcar system—in an effort to expedite reorganization privately or through municipal ownership.

Serving as a forum for presentation of traction ideas, the Chicago federal district courtroom has for 17 years echoed with possible solutions. At a hearing attended by 100 lawyers and financial men, Judge Igoe last week heard arguments on two proposals.

• Bankruptcy or Sale—A group of security holders petitioned that the Chicago Surface Lines be taken out of its 17-year-old equity receivership and be declared in bankruptcy under federal laws. The City of Chicago offered to purchase the surface system and the elevated lines of the Chicago Rapid Transit Co. (now in bankruptcy) and merge them.

Judge Igoe, withholding his decision until next month, implied that he favors shifting the legal status of the surface lines from their present intermediate stage all the way over into bankruptcy. Indicated purpose of this proposed move is to give the court more power in disposing of the property. Putting the lines into bankruptcy, he indicated, also would provide a method to determine whether the city's offer of \$84,650,000 for the traction lines is a fair price.

 Early Maneuvers—To understand Chicago's traction puzzle requires some background.

On Feb. 1, 1927, the surface lines' entire bonded debt of about \$151,000,000 came due. On the same day, its 20-year franchise expired.

The franchise lapsed when municipally sponsored efforts to merge the surface and elevated lines came to naught. Bondholders of the streetcar company saw no benefits in a marriage to the chronic deficit of the elevated company.

• El Goes Broke-Lacking a franchise and unable to pay its bonded debt, the

INSTALLMENT FINANCING OFFICES LOCATED IN PRINCIPAL CITIES OF UNITED STATES & CANADA

6 Business Week • August 26, 1944

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Since that time, the railroad company, crating under temporary extensions the franchise and under the guidance the U.S. District Court, has paid % interest regularly to the first mortage bondholders, and has reduced the mount of these bonds \$23,000,000 to 72,000,000. Junior bondholders, who wn \$56,000,000 of other surface lines ecurities, including \$20,000,000 col-ateral bonds of the Chicago city and connecting railroads, have had nothing. The depression years broke the elerated company, which defaulted on inerest payments. In 1932 it went into quity receivership, and later into bankruptcy. No interest has been paid bondholders since its affairs were taken to

• Bankruptcy Opposed—City Officials oppose bankruptcy as too drastic and slow for reorganizing the surface lines. As an alternative, they submitted this month a second proposal for municipal ownership and operation of the streetcars and elevated lines. Under their plan, \$75,000,000 is offered for the surface lines (\$51,000,000 for physical properties and \$24,000,000 for release of renewal reserves). Surface Lines' assets not purchased by the city would be liquidated, it was estimated, for \$10,500,000. The total to be distributed to security holders would thus be \$85,500,000.

• Financing Plan-Of this sum, senior bondholders would reap \$69,000,000, while the take of junior security holders would be \$16,500,000, less than a 33½% return. Judge Igoe frowned on the city's first offer, providing full payment to senior bondholders, and leaving only crumbs for the junior bondholders.

For the elevated lines, the city's present offer is \$9,650,000 in cash. Other assets to be liquidated should bring an additional \$4,850,000. This \$14,500,000 total distributable to elevated line bondholders is less than a one-third return.

• Four Hurdles—To finance the deal, the city proposes to sell \$84,650,000 of 31% revenue certificates. The plan provides for later inclusion of the reluctant—because financially solid and always money-making—Chicago Motor Coach Co. in the unified, city-owned system. Also provided is a \$100,000,000, tenyear modernization program.

The city's proposal, if it gains court approval, thereafter must run the gaunt-let of: (1) acceptance by the bond-holders; (2) approval by Chicago voters; (3) approval by the state supreme court; and (4) sale of the municipal certificates.

A third course is open to Judge Igoe, who could order that, under provisions





#### It's what goes on INSIDE that counts



Inside an engine, beware of wear!

Send for complete report, form 402, on "Radial Pressure Characteristics of Piston Rings."

RADIAL PRESSURE of piston rings must be correct and uniform to prevent excessive wear of cylinder walls. Because of their exclusive Heat-Shaping process, Pedrick precisioneered piston rings bear evenly against the cylinder wall, with just the right amount of pressure all the way around their circumference. This process relaxes all the grains of the metal, removes the stresses of machining, and "fixes" the rings to exactly the correct shape and tension.

Thus, Pedrick rings have no high-pressure points to break through the oil film and cause excessive wear and scuffing. They have no low-pressure areas, either, which would permit oil to pass or combustion gases to blow by. The superior performance of Pedrick rings lengthens precious cylinder-block life, saves critical gas and oil, reduces tie-up time, and conserves the time of scarce mechanics.

Pedrick precisioneered piston rings, in sizes up to 36" in diameter, assure many hundreds of extra hours of service for engines, compressors, pumps, hydraulic equipment. Packaged complete in Engineered Sets for all popular automotive vehicles, and made to blueprint specifications for innumerable special applications. Tell us your particular needs. WILKENING MANUFACTURING Co., Philadelphia 42, Pa. In Canada: Wilkening Manufacturing Co. (Canada) Ltd., Toronto.



of a 1941 Chicago ordinance, another privately financed unification plan submitted to the Illinois Comme Commission. More than a year at the commission rejected as unsound a merger proposal that provided for issuance of \$179,000,000 securities.

#### New Issues

While investors have pure up some price resistance, the market now seems to be moving into a period of wide activity.

Following the close of the Fifth Wall Loan drive in mid-July, prediction were freely made in some Wall Street quarters that subsequent public offerings of new corporate issues might be \$1,000,000,000-level before the time for the next government loan rolled around (BW-Jul.29'44,p70).

 Price Resistance—The volume needed to reach such a total hasn't been forth coming yet. Moreover, the investing public showed some price resistance to one of the few large issues that has reached the market this summer.

This occurred in the case of the offering of \$24,000,000 Cincinnati Terminal 30-year 2½% bonds, an issue purchased at the high price of 101.08% of par in competitive bidding and publicly reoffered by the winning syndicate at 101.85% of par on Aug. 9.

• Balked at Yield—While this issue a high in investment quality, its price of \$1,018.50 per \$1,000 bond offers purchasers a yield to maturity of but 2.66%. Since U. S. Treasury 2½% bonds of slightly shorter maturities are available at levels yielding 2.46% to 2.48%, or but slightly less, many potential buyers promptly balked. When the underwriters removed price restrictions on the issue late last week, the highest open market bid offered was, for a time, only 100.75% of par.

Wall Street hears reports that the Prudential Life Insurance Co. was able to pick up \$5,000,000 of the bonds and the Union Trust Co. of Pittsburgh another \$1,000,000 at 100.50% and figures that absorption of such a large amount of the offering helped, as later on bids for the issue rose to 101%.

This isn't the first time that investors have balked at issues they considered too rich (BW-Jul.1'44,p68), and the Street thinks that due note will be taken by some of those syndicates that have recently been figuring their bids with very sharp pencils.

• Now Opening Up-However, despite such setbacks, the new issues market is

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The Statler Hotel in New York

RATES BEGIN AT \$3.85

NO. it hasn't quite come to this at the Hotel Pennsylvania.

But a nation at war is a nation on the move. And frequently, more travelers want to move into the Statleroperated Hotel Pennsylvania in New York than the hotel can accommodate at one time!

#### That's flattering. And embarrassing.

We don't like to deny anybody one of our famously comfortable Hotel Pennsylvania beds. But with just so many rooms, and so many more patrons, it's only fair to give preference to travelers who have made advance reservations.

Chances are that we can take care of you if, before you head for New York, you'll remember and observe these "3 Golden Rules for Travelers":



Make reservations well in advance, specifying hour of arrival and date of departure. Cancel unwanted rooms promptly.

Release your room as early as possible on day of departure.

And what of Hotel Pennsylvania food and service during wartime? Well, even though we're rationed like any housewife, we get as many compliments as ever on our delicious meals. All our other employees are working like beavers, too . . . and a mighty fine job they're doing, in spite of wartime handicaps.

YOUR DOLLARS ARE URGENTLY

NEEDED FOR U. S. WAR BONDS

## Wire.

IT IS A FAR CRY - from the tiny Roebling Woven Wire filtering and guarding a super-bomber's fuel - to the Roebling Wire Rope that pilots a paratrooper's training jump...

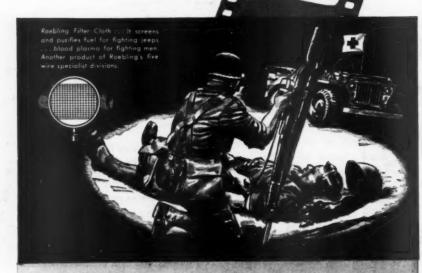
But, there's one thing in common ... Because in the making of wire-whether it's hair-thin or laid into a wire rope as thick as your arm - Roebling specializes in quality-from the rolling of metal to the final fabrication.

Roebling has the men, the machines, the "know-how" that add up to the kind of wire products that can only result from wire specialization-the kind of wire you want when you say ...

#### It's a Job for the Pacemaker!

JOHN A ROEBLING'S SONS COMPANY TRENTON 2, NEW JERSEY

Branches and Warehouses in Principal Cities





## PACEMAKER IN WIRE PRODUCTS

WIRP ROPE AND STRAND . FITTINGS . AERIAL WIRE ROPE SYSTEMS . COLD ROLLED STRIP . HIGH AND LOW CARSON ACID AND BASIC OPEN HEARTH STEELS . ROUND AND SHAPED WIRE . ELECTRICAL WIRES AND CABLES . WIRE CLOTH AND NETTING AIRCORD, SWAGED TERMINALS AND ASSEMBLIES . SUSPENSION BRIDGES AND CABLES finally showing some of the predict signs of widespread activity and ma are now beginning to think that next twelve weeks may prove to be busiest underwriting period since Per Harbor.

Virtually all the financing now in cated is for refunding purposes. Issualready registered with the Securities Exchange Commission, awaiting a proval of the Interstate Commen Commission, or otherwise pretty w set for early public offering, include:

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\$65,000,000 Armour & Co. mortga bonds and \$10,000,000 serial not (BW-Oct.9'43,p102). \$10,000,000 Birmingham Electrical States of the serial not serial not be serial not serial

mortgage bonds.

\$42,000,000 Brooklyn Union G mortgage bonds and debentures (BW: Aug.12'44,p68). \$6,000,000 E. G. Budd Mfg. C

prior preferred stock.

\$44,000,000 Chicago Union Station mortgage bonds.

\$10,000,000 Empire District Electric mortgage bonds and \$3,500,000 of pro ferred stock.

\$12,000,000 Indiana & Michigan Electric preferred stock.

\$47,000,000 Kansas City Termina mortgage bonds.

\$24,603,000 Western Union Tele graph bonds.

• Expected Later-Additional offering expected by Wall Street before many weeks are past include:

\$50,000,000 Central New Power mortgage bonds.

\$178,000,000 Commonwealth Edi son mortgage bonds (BW-Aug.12'44)

\$4,000,000 Florida Power preferred stock.

\$100,000,000 Great Northern Ry. bonds (BW-Jul.29'44,p70).

\$14,000,000 Mississippi Power & Light mortgage bonds and notes. \$31,500,000 Narragansett Electric

mortgage bonds. \$24,000,000 New York Power &

Light preferred stock. \$30,960,000 Ohio Edison bonds and

\$18,000,000 of preferred stock. \$130,000,000 Philadelphia Electric

\$7,500,000 Pillsbury Flour Mills preferred stock.

#### CHECKS AND CHECKS

Checks, Incorporated, of Minneapolis, which has inaugurated a copyrighted postcard check service for money order purposes (BW-Aug.5'44,p56), has no connection with Checks, Incorporated, of New York, which for 14 years has been selling a patented system of handling checks on typewriters for payroll and other purposes.

#### PRODUCTION

#### G.I. Bulldozer

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World gets demonstration of U.S. earthmoving equipment naction. Results may sew up peacetime markets.

Bulldozers clear the beaches, build the air bases, and break paths for the Army ground forces. In mechanized warlare, power-driven earthmoving equipment has won a place in the sun.

Air power is a mobile weapon, but only as mobile as the speed with which airfields can be built. Thus even air power depends on earthmoving power, Engineering News-Record, a McGraw-Hill publication explains, and Americans "are the world's greatest earth mouers."

• Restrictions Eased—Therefore because it indicates that the services have passed the peak of demand, it is good news for the Allies, as well as good news for construction men who want to get back to work on civilian jobs, that WPB has eased some of its restrictions, effective this month, limiting production of lighter type bulldozers, and 25 other kinds of construction equipment. At the same time WPB eliminated all limitations on the distribution of repair parts for these 26 items.

 Priorities Remain—A buyer continues to need a priority of AA-5 or better to get a bulldozer, but he might conclude that the builders of earthmoving and related construction equipment perhaps will be able to supply some of their regular civilian customers within the next few months.

• Brisk Competition—About 73% of total current production, WPB estimates, goes to the military services, 5% into export (lend-lease), and 22% into civilian uses considered important enough to rate the necessary priorities. Volume reported in 1937 (peak prewar year) was \$247,000,000. Last year it was \$721,-000,000; this year production continues at about that level.

Building of construction equipment is highly competitive. No one producer accounts for much more than 5% of the total volume, and WPB reports 300 manufacturers in the field.

• Worldwide Demonstration—In one sense the war has welded together the sales promotion activities of these 300 manufacturers into a worldwide cooperative demonstration of what American carthmoving machinery can do. Army,

Navy, and lend-lease have placed demonstrating models in action on every continent and on obscure islands in the Pacific.

Not all these hard-working demonstrators will come back. Those that survive the brutal demands of their war jobs, or many of them, may be needed abroad for reconstruction, and their use may promote new and renewal orders, and a demand for repair parts.

Led Offensive—This world demonstration has been well publicized. For example, the United Press, reporting the first American break-through near St. Lo in the present European offensive, carried a story which began with these words:

"First came giant American bulldozers, smashing holes in the hedgerows and battering the German road blocks to rubble, and then came a long, waddling line of tanks on which infantrymen were crouched like cowboys."

In action on the Pacific Islands other "giant American bulldozers" push over Japanese pillboxes, plug the entrances to caves filled with enemy troops, and destroy cannon and machine guns.

• The Dozer Family—To the construction man, the word "bulldozer" means the steel scraper attached to the front end of a crawler-type tractor. In popular usage, this meaning has been enlarged to include both scraper and tractor, as a unit.

There are many variations, such as beach dozer, angle dozer, tree dozer, dozer shovel, and overhead shovel, describing different kinds of moving or carrying equipment. Bulldozer blades have been mounted on tanks (page 74); regular crawier tractors mounting bulldozers have been armored for service in combat areas.

 Chief War Job—The main war theater job, if not the most spectacular one, for American construction equipment has been to build landing fields, and make possible effective air support of ground forces.

Besides speedy construction of runways and taxiways, Army aviation engineers are equipped to provide water supply, sewage disposal, power, and communication facilities, housing, roads, pipelines, aviation gasoline fueling systems, and sometimes wharves and docks.

Navy's users of construction equipment are the Seabees. Their jobs are likely to begin with a question relating to some island far out in the Pacific, "How soon can you build an airstrip there on which we can land bombers?" As with the Army, the bulldozers come first when the Seabees move in.

• Few Design Changes—Most manufacturers of earthmoving equipment say that their products today are about the same as they were three or four years ago, with practically no revolutionary design changes, although there have been some special designs to fit requirements of air transport, and improvements in line with long-term trends toward higher-speed, pneumatic-tired equipment.

• Postwar Competition—In view of what's being done by the Americans with American earthmoving equipment, some builders anticipate a postwar market of world proportions. The Ameri-



By cleaning up the rubble, a standard-type American bulldozer quickly transforms the battered French town of Douet into a military asset for the Allies.



An ingenious military bulldozer is the American M-4 tank which mounts a scraper blade which worked under fire among the hedgerows of Normandy.

cans may not have this market to themselves, but they now appear to hold a substantial lead over all possible competitors, and they have every intention of keeping it.

In the bulldozer and related equipment field, one bone of contention is the relative merits of hydraulic and cable controls. Field reports indicate that repair erews have a preference for cable controls. Hydraulic control builders claim hydraulic action is smoother and safer.

• Lines to Expand—Despite the wartime pooling of demonstrations through Army and Navy, indications are that end of the war will signal more intensive, rather than less, competition among the manufacturers.

Specialization has, up to now, been the accepted thing. Tractor builders haven't generally invaded the equipment field, and vice versa. Recently Caterpillar Tractor Co. departed from this tradition by disclosing that it will begin to make its own line of bull-dozers, scrapers, rippers, and cable control units, as soon as military requirements permit.

#### LATEX FOR TIRES

Tires manufactured out of liquid rubber, or latex, instead of the traditional gum stock are the goals of a current research project at the Firestone Tire & Rubber Co., Akron.

Researchers believe they can spread compounded latex, natural or synthetic, directly on cord fabric for tire bodies, thus eliminating the slow and expensive jobs of milling solidified rubber and calendering it into the fabric with huge rollers. Tire treads are made separately by similar methods and added to the bodies during final stages of manufacture.

In revealing the development, Firestone cautions that tires made by the new method do not yet compare in mileage with those made by conventional methods, but believes that results are encouraging enough to justify further research.

#### FREON FOR THEATERS

Good news for theater owners whose business has been hurt by recent hot weather and lack of sufficient air-conditioning refrigerant appeared last week in published reports that WPB was easing up on its controls on Freon, the refrigerant gas. Actually WPB is making only a small amount of Freon available to theaters where lack of this refrigerant has caused acute hardship.

Franklyn B. Millham of WPB's General Industrial Equipment Division said from WPB's point of view the publicity was premature, because it might give the impression that Freon is no longer in tight supply. There has been a slight increase in production from the mid-year figure of 3,200,000 lb. a month (BW-May27'44,p63), but the supply continues to fall far short of demand.

WPB has been granting hotels enough Freon to supply cooling systems for inside dining rooms, but none for bedrooms. From questionnaires it has sent to theater owners, WPB also expects to work out some criteria for granting Freon to operators whose business would be seriously hurt without it.

#### Wired Tires Tried

Experiments with metal substitute for fabric cord show promise in limited fields, but not for passenger car rubber.

Research on the use of wire cord to replace textiles in automotive tires is being conducted by several rubber companies with a degree of success which prompt technicians to forecast some postward development of that construction, although high comparative costs seem likely to prevent any widespread use.

• Bond Improved—The principle is not

new, having been pioneered in France by Michelin tire engineers more than a decade ago. A few of these tires were sold in the United States, but they were never widely adopted. Recent improvement in rubber-to-metal adhesives, however, has given the method fresh impetus.

Wartime rubber problems spurred intensive experiments with wire-cord tires in the hope that they might produce a lighter tire with greater bursting strength and effect a saving in rubber and tire-building equipment.

• For Limited Fields—Conclusions from fabrication and testing experience are still shrouded in censorship, but it is apparent that not all of the hoped-for results were obtained. Results were impressive enough, however, to cause designers to predict future application in limited fields.

Vehicles such as those used in logging operations, where tires encounter high pressures and low speeds, are considered a typical possibility for wirecord tires. Indications are that such uses would call for but a small fraction of the country's tire output.

• Impracticable for Cars-For ordinary passenger and commercial car use, the wire tire cost is so high, as compared with textiles, that three or four times longer service would be required to make them economically practicable. Wire has produced no such promise.

• Procedures Vary—All of the major Akron companies have built tires with metal. Details of construction vary, but in general the tire people have employed steel wire of about 0.006 in. in diameter, twisted into a 3x7-strand cable.

This is coated with brass, high in zinc, to prevent corrosion and because that alloy has been found to form the strongest bond with rubber. A layer of wire cable is wound around a rubber core over a cylindrical drum, then a second layer of rubber is applied. A tire ply is bias-cut from this sheet, with the

This could be your boy or your pal

Your Pint of Blood Might
Save His Life. Blood defeats
death! On scores of battle fronts, precious blood—given from a heart-felt
desire to serve—is routing pain and
shock and utter exhaustion. Blood is
the magic fluid of life. It is your privilege to give it—bere and now. This
is your part to play, that your boy—
your Pal, may live.

Do your blood-bit, and thus help to prolong useful vital lives through their natural span. This is the debt of gratitude of us all, to the boys in uniform. Only our own life blood can buoy the life flame of the greviously wounded. So, give of your blood, that men

may live and that a better, freer world may be assured.

Here at Diebold, we are all 100% behind the war effort. We give of our time, our energy, our prayers. But, we back these efforts by buying war bonds, and by giving generously of our vital life blood. We are so proud, thus to serve.

DIEBOLD, INCORPORATED



BUY WAR BONDS!



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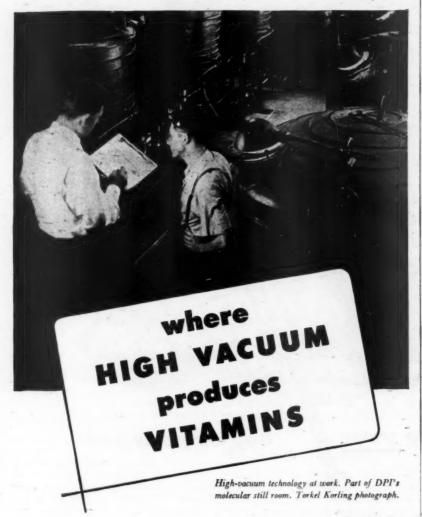
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THOSE odd shapes in the photograph are some of the many highvacuum molecular stills which turn smelly, low-potency fish liver oils into bland, odorless, stable, highpotency concentrates of vitamin A.

The production of these Vitamin A Esters\* concentrates is one of our principal activities here at DPI. The production of high-vacuum pumps, gauges and other equipment is another principal part of our business. In the still room pictured here, they work together. In fact, our vitamin "production line" has been the birthplace of many notable improvements in our highvacuum equipment. And these vacuum equipment improvements in turn have helped us to produce more and better vitamin concen-

This hard-won experience of DPI in two distinct but related fields may be of great value to you. We invite your inquiry.

\*Protected by U. S. product patent No. 2,205,925 and more than 50 process patents:

#### stillation Products, Inc.



Pioneering High-Vacuum Research 755 Ridge Road West, Rochester 13, New York Headquarters for Oct-Soluble-Vitamins and High Vacuum Equipment

transverse wires at an angle of about

Designers say that two such ples in. part a bursting strength equal to about six fabric plies.

• Rejected for Planes-Among the speculative possibilities of the wire-cold tire were their use on aircraft, where weight is an important factor. It is under stood, however, that tests were unsatisfactory because the high degree of flexing-up to 35%-to which the tire is subjected by landing shock further decreased the low fatigue-life which is the wire tire's major disadvantage.

Another urge behind the wire-cord xperiments was the possibility that their use in heavy-duty truck and bus tires would overcome the problem of internal heat which causes such tires, when built of synthetic rubber, to deteriorate rapidly. Tire engineers consider 250F the critical temperature for fabrics, while for rubber it is 300F to 350F. Again, however, low fatigue-life was the insurmountable handicap of the wire tire, Glass Fabrics Inelastic—The new glass fabrics also were tested hopefully. Their resistance to heat, of course, was all that could be desired, and they had ample tensile strength. Inelasticity caused their rejection.

It is possible, of course, that reduction in the cost of fine-drawn wire might shift the economic balance between wire and fabric tires. But until it does, rubber technicians are agreed that the wire tires cannot compete, and will remain of limited application and ex-

perimental interest.

#### Goes Straight

Crooked, knotty tamarisk overcomes handicaps and is now suitable for big scale use as wood for furniture.

Back in 1910, George Kinne got some cuttings of tamarisk, a white hardwood native to the eastern Mediterranean and tropical Asia, from Algeria and planted them in a windbreak on his farm near Coolidge, Ariz.

Enthusiastic about the results, Kinne gave cuttings to neighbors, and later became just as enthusiastic about tamarisk as a cabinet wood. He made furniture for himself to show how well the wood could be worked.

• Grand Rapids Likes It-During the depression, Arizona farm experts, looking for new sources of farm income, sent samples of tamarisk wood to furniture manufacturers in Grand Rapids for an opinion.

Grand Rapids liked tamarisk. It was

Business Week · August 26, 1944



#### Pattern for Postwar Progress

Here are the portraits of two of today's metals-brass and steel. From these and other metals, many of them developed as a result of wartime needs, will come the new alloys of tomorrow. A cross section sample, carefully polished, and placed on the stage of the Bausch & Lomb Metallographic Equipment looks like this on the viewing screen of the camera. From the photograph the metallographer can very readily tell how it will behave in action, what impurities are present and in what proportion.

25

In that same photograph he also sees a pattern for postwar progress. For the same qualities that have made fighting steel better, will help to make better and longer lasting cars, planes, razors and machines to make other postwar products.

B&L Metallographic Equipment was in use throughout the metal industries before the war, to help check and maintain the qualities American industry insisted upon. When war came, the job of the metallographer became even more important, for armies fight on iron and steel, brass and aluminum,

copper and a thousand and mo alloys. But war has brought metalurgic progress, progress that the metallographer witnesses every de through his equipment, progrethat in the postwar world, we create a wider demand for the procision optical instruments of a search and control, such as the metallographic equipment, whi Bausch & Lomb manufactures.







Awarded to the Detroit and Muskegon Plants of Cantinental Motors Corporation for High Achievement.

## Continental Red Seal Engines

#### POWER TO WIN

It is the capacity for understanding the role of power, and the ability for adapting that power to the need which has made Continental a strong right arm of our government in its battle against oppression.

It is one thing to have the "know-how" for tackling so many diverse power problems and quite another to have the production skill for doing the seemingly impossible with splitsecond coordination.

Continental has both . . . a fact that holds tremendous promise for the age of peace.

Your Dollars Are Power, Too. Buy War Bonds and Keep Them!

Continental Motors Corporation
MUSKEGON, MICHIGAN

found to be strong, hard, and machinable, and to resemble white oak in color and grain. The furniture men said they could use tamarisk in large quantities, if straight logs were available and there was the rub.

• Now Grows Straight—In Arizona, tamarisk had been valued only for its quick growth to make a hedge, and for its curious property of absorbing creosote without heating, making it resistant to rot and termites. The millions of board feet available were all

crooked and knotty.

Arizona Agricultural Experiment Station reports that test plantings have showed that tamarisk planted by forestry methods would grow straight trunks, and fast—1-ft. diameter in two years, a 2-ft. thick log in four years. Also, the experimenters found, tamarisk did well on soils too poor for crops, especially alkali soils, and needed irrigation only during the first year.

• Planting Expected—Now the furniture industry is ready to do the advertising necessary to introduce tamarisk as soon as a supply of the timber is avail-

able.

Under the spur of change brought by reconversion, with their market for cotton falling off, and with new cash crops badly needed, Arizona farmers are expected to do something about tamarisk.



#### PRESSURE CHECKER

An ordinary household gas meter records vital tests on pressurized chambers for B-29 Superfortresses at Hudson Motor Car Co. Hooked into the chamber's pressure line, the meter checks on leaks by showing the flow of air necessary to maintain compression. Hudson engineers put the gas meter to work after a futile search for the scarce scientific instruments that are normally used. Rental on the meter: \$3 monthly.

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In Action
On All Fronts

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> Working on more than 3,000 contracts, Lyon has produced complete units, sub-assemblies and parts in steel and aluminum for a wide variety of America's most famous battle equipment.

> Until victory is won, our business is war business. Our manufacturing plants are well organized as a result of more than 43 years' experience in sheet metal fabrication. Facilities include modern equipment for perforating, blanking, forming, assembling, drawing, enameling, annealing and lacquering. Approximately 2,000 experienced factory workers. Complete toolrooms in all plants.

Write on business letterhead for book "Craftsmen in War Production"... giving detailed information on Lyon's Facilities, Manpower, Finances and Management.

#### WHAT ABOUT POST-WAR?

Do your post-war products include sheet steel or aluminum? Check Lyon's manufacturing and designing facilities.

LYON



Cut-away view of New Departure Ball Bearing

#### **Ball Bearings** to destroy **Ball Bearings**

At least twenty ball bearing plants in fourteen or more cities of Fortress Europe have been blasted again-and again - as the quickest way to stall most enemy war production. Because wherever shafts turn, for the enemy as well as for us, ball bearings are utterly indispensable.

And this continuing job is being done by thousands of great bombers-each functioning with thousands of ball bearings-from nose to tail.

They are vital parts of every plane, tank, warship, fire control, landing craft. Even after breaking world's production records, New Departure is still hard pressed to satisfy the demands of our Army, Navy, and our allies.

Such an unprecedented demand is an accurate index of ball bearing efficiency in bearing the loads, maintaining precise location of moving parts, reducing friction and wear to an absolute minimum.

A New Departure engineer is your assurance of bearing performance. Consult him while your designs are in the formative stage.



DIVISION OF GENERAL MOTORS . BRISTOL, CONNECTICUT Sales Branches: DETROIT, G. M. Bidg., Trinity 2-4700

CHICAGO, 230 N. Michigan Ave., State 5454 . LOS ANGELES, 5035 Gifford Ave., Kimball 7161

#### NEW PRODUCTS

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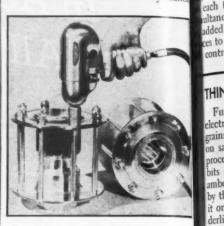
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#### Pneumatic Impact Wrench

A calibrated adjustment screw on the new Model 131 Aro Pneumatic Impac Wrench enables the operator to set an nut or bolt to any desired tension. six-bladed rotor whirls two cylindrical



steel rollers causing them to be thrown repeatedly by centrifugal force against a "hammer" and furnishing a succession of impacts to the work. With the achievement of the preselected tension the rollers rebound from an "anvil" without engaging the hammer.

The manufacturer, Aro Equipment Corp., Bryan, Ohio, reports that it method of impacting "prevents any stretching of the threads on either the nut or bolt and guarantees maximum torque. By the same token, in removing nuts or bolts, there is no 'burning' of the threads." Model 131, which weight only 4½ lb., has an over-all length of 6½ in., and a capacity up to 1-in. bolt size.

#### Thiokol "ST"

Newest synthetic rubber of the polysulphide type is Thiokol "ST," formulated by the Thiokol Corp., 780 N. Clinton Ave., Trenton 7, N. J. It is said to have "extreme low temperature flexibility without the addition of plasticizers plus excellent resistance to solvents, ozone, and sunlight." An unpleasant odor commonly associated with polysulphides has been reduced to a negligible factor." Cold flow (the tendency to take on permanent deformation under pressure or stress) is reduced to a new low for synthetic rubbers.

#### Electronic Flame Cutter

Plastic cylinders, 51 in. in diameter and 101 in. long, are the phonographlike "records" that guide the new Stru-

Business Wook . August 26, 1944

ter in the automatic cutting of steel ter in the automatic cutting of steel tes into any contours desired. Recspromise to last indefinitely because markings on them are scanned only a beam of light and translated into movement of one or more cutting the standard machine, developed by Struthers Wells Corp., Titusville, has two 10-ft. arms with a torch each to cut two plates 120 in. wide ultaneously. Additional torches can added to cut as many as 16 narrower ces to a given contour at one time—controlled by the plastic record.

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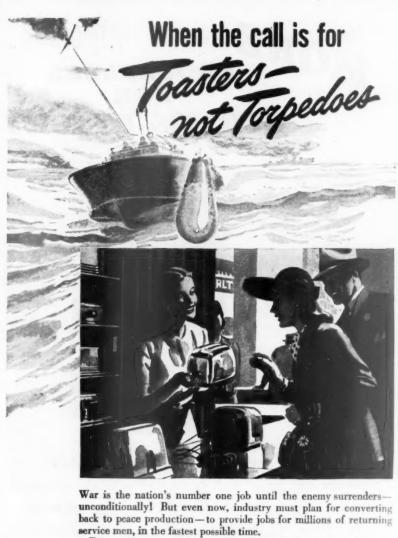
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Fundamentally the same sort of electrostatic field that causes grit grains to jump upright into place on sandpaper during the modern process of manufacture and urges bits of lint and paper to leap to amber after it has been charged by the ancient process of rubbing it on silk or a cat's back will underlie the postwar finishing of products ranging from clay flower pots to metal refrigerators and automotive parts. New economies in paint, lacquer, and varnish are foreseen in electrodepositing paint sprays, together with new uniformities in surface coatings.

Standard spray guns of the low pressure, automatic type will be used. Articles to be coated will be hung on conveyors. As the finely atomized mist of finishing material discharges from the guns, each particle will go through an elec-tric field of high voltage and low amperage taking on an electrical charge which will cause it to follow the lines of force directly to the piece being coated. Paint lost in the surrounding air will be negligible. Since such a field includes bent lines as well as straight ones, the spray will follow them faithfully around corners to some degree, coating the sides as well as the fronts of small items.

Wash day will not be followed by ironing day when certain synthetic fibers can return from war and take up their rightful places in civilian clothing and household "linens." Since their smooth press and legitimate creases will be molded in permanently during manufacture, they will need only to be washed and dried in a modem washing machine to be ready for immediate wear.



To save time, to gain time—millions of man-hours of time—industry will continue to call upon AIR EXPRESS for the high-speed delivery of critical changeover tools and material. And AIR EXPRESS will continue to serve all business, but with greatly expanded services and everincreasing economy—in searching for new opportunities both at home and in world-wide markets.

### A Money-Saving, High-Speed Wartime Tool For Every Business

As a result of increased efficiency developed to meet wartime demands, rates have been reduced. Shippers nationwide are now saving an average of more than 10% on Air Express charges. And Air Express schedules are based on "hours", not days and weeks—with 3-mile-a-minute service direct to hundreds of U.S. cities and scores of foreign countries.

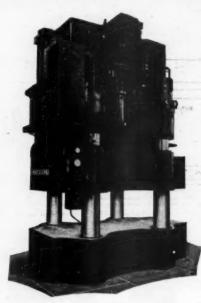
WRITE TODAY for "North, East, South, West"—an informative booklet that will stimulate the thinking of every executive. Dept. PR, Railway Express Agency, 230 Park Avenue, New York 17, N. Y., or ask for it at any local office.



Phone RAILWAY EXPRESS AGENCY, AIR EXPRESS DIVISION
Representing the AIRLINES of the United States

#### MORE PROPELLERS FOR Curtiss-Wrich





Day and night eleven 2000-ton Birdsboro Hydraulic Presses of this type are at work in the Curtiss-Wright propeller manufacturing plant at Caldwell, New Jersey and Beaver, Pa., producing precision-formed electric propellers for America's air armada.

Throughout the entire aircraft industry today, Birdsboro Hydraulic Presses are doing big jobs, and doing them well. Production and management men alike realize when it's a press problem, it PAYS to ask Birdsboro.



Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa.

HYDRAULIC PRESSES

#### WAR BUSINESS CHECKLIST

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A digest of new feder regulations affecting prioriti price control, and transportation

#### Increased Civilian Supply

House trailers may now be sold to migratory war workers in essential job other housing accommodations with reasonable distance of the place of a are inadequate. "Reasonable distance" defined as an hour's ride, means of to portation not specified. . . . Restrict on use of metals in utility type incan cent lighting fixtures have been remo from Order L-212. . . . A small am of Freon 12 has been made available theaters in which lack of this refrigerant caused acute hardship (page 74).... Wand WFA have jointly authorized the lease of enough material to expand the tion's annual production capacity of all dehydration facilities by 80,000 tons.

#### Relaxation of Priorities

Amount of ascorbic acid (vitamin Basol which may be purchased without speci WPB authorization has been increase from 3 kg. to 30 kg. and control of the product has been shifted from Onto M-269 (which has been revoked) to Ori M-300 (the general chemicals order). . Order M-96 has been revoked, remove all restrictions on the use of agar. Restrictions on the use of gold and ladium in jewelry have been removed revocation of Order L-45. . . . WPB again consider applications for licenses import raw unprocessed istle from Mexic

#### Cotton Yarns and Fabrics

Pending a complete cost study, OF has announced in advance increases of 2 a lb. to be made in mill ceiling price of cotton Class A print cloth in gra and in mill prices of certain other pri cloth yarn fabrics. At the same tim OPA announced forthcoming price in creases (again at the mill level) of from 10% to 15% in combed cotton yan and of 71¢ in carded cotton yarns. Seller may not charge these prices, however, until the increases have been official put into effect.

#### Consumer Durable Goods

To encourage production of a number of items of low-priced consumer durable goods, OPA has announced that mans facturers may apply for limited price is creases on these goods. Wholesale and retail adjustments are also authorized Producers who qualify for higher price ceilings are those who face an over-al loss on operations under present ceiling and those whose ceiling prices on the

Business Week . August 26, 1944

are below factory costs, regardless their over-all position. Among the carriages, brooms, carpet sweepers, fountain pens, galvanized ware, garhangers, certain kitchen utensils and ipment, some types of furniture, matendment 16, Order A-2, Regulation

#### ork Clothing

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the OPA regulation covering staple the clothing has been completely re-ed at all sales levels, with tighter con-bin the form of dollar-and-cents ceilal jobs s-at wholesale and retail. This ac-follows recent rulings increasing prices on denim and sanforized moral to relect party to the Cotton met, as stipulated by the Stabilization tension Act. The manufacturer of work ments may pass on the increased cost the materials to the distributors, who generally absorb it, though distributors allowed what OPA calls an adequate arkup judged by peacetime standards. ich items as dungarees, bib overalls, ambray and covert work shirts are afcted by the revised price ruling, which Il go into effect Sept. 1, or Aug. 16, the option of the seller. (Revised Reguion 208.)

#### Basoline

Refiners' maximum prices on the new 1-74 octane ASTM grade of gasoline we been established by OPA at & of a nt below the prevailing maximum prices 72-74 octane gasoline. This ruling kes care of the new specifications for gular gasoline ordered recently by the etroleum Administration for War (BWul.22'44,p74), though all gasoline dis-ibuted as Regular Grade is included in e new price range. Retail and tank agon ceilings remain unchanged. (Amendent 16, Regulation 88.)

Refiners in eleven midwestern states



Cairns Corp. Brooklyn, N. Y. Electrical Research Laboratories, Inc. Evanston, Ill. Marietta Mfg. Co. Point Pleasant, W. Va. The Ingalls Iron Works Co. Verona, Pa. Solar Aircraft Co. Des Moines, Iowa Leich Electric Co. Genoa, III.

Names of winners of the Army-Navy and Maritime Commission awards for excel-lence in production announced prior to this new list will be found in previous issues of Business Week.)

Dialogue: Between a Vice President and a Potato Bug

Bug: "Well, well! What you doing in your Victory Garden at five o'clock of a Wednesday afternoon?" V.P.: "This is the time I saved last week." Bug: "Howzat?"

> V.P.: "I installed a better way to get things done ...it's called the Dictaphone Method."

> > Bug: "New spray?" V.P.: "Nope...I'm using a dictating machine! It lets me work independently of my secretary."

Bug: "Who ever heard of two potato bugs doing a job one could do better?"

> V.P.: "We both do our jobs better, and quicker. So we have more time for other things, like

Victory Gardens. On guard, bug, your days are numbered."

Investigate the time-saving Dictaphone Method. A Dictaphone representative will gladly show you the two types of Dictaphone dictating machines...the familiar Acoustic type, with speaking tube and the new Electronic models, with a desk microphone and or hand microphone . Electronic equipment for Dictaphone Electronic Dictation, also records both ends of telephone calls and, under proper conditions, over-the-desk conversations. Either type doubles your ability to get things done. DICTAPHONE CORPORATION, 420 Lexington Ave., New York 17,

N. Y.

The word DICTAPHONE is the registered trade-mark of Dictaphone Corporation, makers of dictating machines and other sound recording and reproducing equipment bearing said trade-mark.

PRODUCTS
DEVICES...
Processes

ARE you ready to
meet severe postwar competition? Our "New Products
Service for Manufactures" will as able

ARE you ready to meet severe post-war competition? Our "New Products Service for Manufacturers" will enable you to obtain new products and processes without encountering the usual expense and difficulties. In addition to the many products now available, we have a steady flow coming in as the result of our long experience and organized effort in this field.

We study your facilities, experience and distribution set-up and submit only the items that deserve serious consideration. Our engineering background has proved invaluable to clients having difficulty deciding what type products they should seek. Here is a reasonable cost service that will begin to function immediately for your company.

Time is valuable. Phone, wire or write for details of this service.



New Products Division
DESIGNERS FOR INDUSTRY, Inc.
2915 Detroit Avenue, Dept. B-7
CLEVELAND 13, OHIO

have been provided by OPA with a simplified formula for figuring delivered-atdestination prices on tank car and transport truck sales of gasoline and kerosene. (Amendment 15, Regulation 88.)

#### Hardwood Lumber

Large consumers of lumber may obtain delivery of a portion of their fourth-quarter allotments of hardwoods during the third quarter, even though the specific fourth-quarter allotments have not as yet been made. The maximum amount of additional hardwoods which may be ordered under this directive is the larger of (1) 20% of the amount ordered before Aug. 15 for third-quarter delivery, or (2) 20% of the amount reported in inventory when application for fourth-quarter allotment was filed. The liberalization was made possible by a new estimate of third-quarter hardwood production. (Order L-335, Direction 14.)

#### Uranium

Strict allocation controls have been placed on uranium, its compounds, alloys, and mixtures (containing 5% or more by weight of uranium oxide). On and after Sept. I, sales of 10 lb. or more of uranium to any person in any calendar month will be prohibited unless authorized by WPB, while sales for certain uses continue, as formerly, to be prohibited altogether. Anyone having in his possession at any time 2,000 lb. or more of any ores, residues, or tailings containing 5/100% or

more by weight of uranium oxide must with WPB information concerning his ings.

#### Construction Services

On and after Aug. 26, the construction industry is authorized by Economic Solization Director Fred M. Vinson to to its current ceilings for construction ices an amount sufficient to cover ince in wage costs since Oct. 3, 1942, proporting the wage increases have been appear or authorized by a proper governagency. (Revised Regulation 251.)

#### Aluminum Cans

Producers of aluminum cans to be a for the packing of lard, baking power tobacco, tooth powder, pharmaceutic and other specified commodities must OPA approval on their proposed price pricing methods for these cans. This rule affects manufacturers who will make use the aluminum recently released for expending the purposes in making cans to of the growing shortage of paper and time tainers. (Amendment 163, Revised Supplementary Regulation 14.)

#### Imported Commodities

WPB has removed all governmental of trol over 51 imported commodities. And the more important items affected are let in (except tinplate scrap), fluorspar, molmorations types of wool, barley malt, let beans, peanut butter, garlic, and glue. (Geral Imports Order M-63, as amended.)

#### Fish

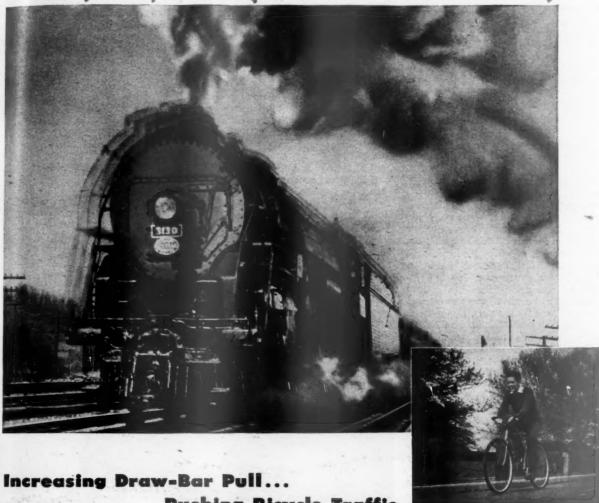
Specific dollar-and-cents ceilings set OPA on certain kinds of cured and smok fish at the processor level will result in average increase of approximately 10¢ alto consumers. The fish covered are smok whitefish, smoked kippered salmon, smoks sablefish, and smoked mild-cured salmo (lox). The increases were granted to remo a squeeze on processors. Since retail ceiling are figured by a fixed markup, the increase will be automatically passed on to consumers. (Regulations 550.)

#### Other Price Actions

Amendment 1 to Regulation 530 revise maximum prices on pulpwood importe from Quebec, New Brunswick, and Nov Scotia to bring them into line with change made by the Canadian government in pulp wood ceilings. . . . Ceiling prices on canno meats sold by intermediate distributors a reduced by Amendment 1 to Revised Re ulation 156 to the same extent that man facturers' ceilings have been reduced. . . . Revised Supplementary Regulation 14 authorizes producers who have increase the size or weight of bread or rolls t add one cent to their present ceilings day-old, stale, or broken bread or rolls. The amount that cotton compress and ware house operators may charge this season hi been set at 17% above their ceilings for the 1942-43 season by Amendment 166 to Revised Supplementary Regulation 14.



## Making strong the things that make america strong



## **Pushing Bicycle Traffic**

A WAR-WORKING locomotive . . . hauling heavier loads at faster speeds . . . begrudging every minute required for repairs . . . needs bolts and nuts so strong they defy the shocks and strains of pulls and bumps and clickety-click vibration.

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> A bicycle . . . riding a busy assembly line . . . needs fasteners with threads so true they speed the get-away and ease the

> Whether strength or accuracy is the chief requirement of your product's fasteners, you get both when you use RB&W

EMPIRE products. For, the same manufacturing steps that make them strong build accuracy into their dimensions.

For 99 years, constantly improved strength, accuracy and finish of RB&W products have resulted from continuous research and progress. Starting with RB&W's development of the first automatic cold-header, this progress has been sustained by great investments in the most modern manufacturing equipment and latest methods for quality control from raw material to finished fasteners.

For proof of this maximum combination of strength, accuracy and finish you need only look at the famous names in farm implements, automobiles, railroads, aircraft, power and transmission equipment, construction and general industry that have standardized on RB&W fasteners.

Russell, Burdsall & Ward Bolt and Nut Company. Pactories at: Port Chester, N. Y., Coroopolis, Pa., Rock Falls, III. Sales offices at: Philadelphia, Detroit, Chicago,

1111471101010181811 RUSSELL, BURDSALL & WARD BOLT AND NUT COMPANY

## MARKETING

## Unions Seek Air

C.I.O.'s political arm is prosecuting careful drive against broadcasters by intervening in their relicensing hearings.

Radio is having labor pains. Both the A.F.L. and the C.I.O. are pressuring networks and stations for time to broadcast their views on controversial

subjects.

• Around the Table—William Green is seeking time for the American Federation of Labor by way of the conference table. He wants 13 weeks each from the four major networks, the Blue, CBS, MBS, and NBC, during 1945. A Washington conference Aug. 11 between Green and network officials was described as "cordial." No decision has been reached by the nets, however.

been reached by the nets, however.

Philip Murray's C.I.O., prodded by Sidney Hillman's Political Action Committee, is demanding time to broadcast "in the public interest." The C.I.O.'s threat to bring before the Federal Communications Commission any station which refuses to acquiesce is not an idle one. On Aug. 16 public hearings on a C.I.O. United Auto Workers petition charging WHKC, Columbus, Ohio, with failure to operate in the public interest were begun before Commissioner Ray C. Wakefield.

• Dual Show Snubbed—For many weeks NBC gave time for the "Labor for Victory" program, a Sunday stint in which the A.F.L. and C.I.O. alternated. But Green opposed the dual participation and the program finally went off the air. The C.I.O. complained, toomainly because its programs could be

heard only fortnightly.

What threatens to become a major political issue, with radio in the middle, is the P.A.C. campaign to get around the "controversial issue" bar in the National Assn. of Broadcasters code of ethics which makes it difficult for a union to buy time on the air. On June 1, 1943, Columbus (Ohio) Local 927, U.A.W.-C.I.O. (Curtiss-Wright employees), bought a 52-week Sunday half-hour on WHKC for an "educational" program to promote good relations between labor and management.

• Blast Rejected—All went well until Richard T. Frankensteen, vice-president of the U.A.W., submitted a speech which the station refused to broadcast, told him he'd have to rewrite and take out "controversial" issues. Frankensteen wanted to lambaste Senators Robert A. Taft, Burton K. Wheeler, and Gerald P. Nye and Rep. John M. Vorys, while patting President Roosevelt's back.

Meantime, through normal process, WHKC's license came up for renewal before the FCC. On Sept. 17 Local 927 and the U.A.W. filed a petition to intervene, charging that WHKC, by "censorship," was not operating in the "public interest." The commission denied the petition, renewed the WHKC license for a normal period on May 16, 1944.

• FCC Reconsiders—On June 3 the U.A.W. filed a new petition, asking the FCC to reconsider. Aid of New Deal congressmen and other topside officials was enlisted. Result: The FCC set the petition, once denied, for hearing

ing.

P.A.C. got busy, instructed all regional directors to apply for radio time needed "between now and November," report to national headquarters "all refusals to grant or sell P.A.C. a fair share of time"; directions also called for re-

port on "all cases of censorship." C.I.O. reportedly has a list of some 40 stational against which charges will be filed.

• Subpoenas Denied, Issued—Commissioner Wakefield denied U.A.W petitions to subpoena Alfred P. Sloan, J. James S. Adams, and Wilham S. Rainey, officials of the National Assn. of Manufacturers; the union contended that WHKC carried programs sponsored by three N.A.M. members.

But Commissioner C. J. Durr, whose wife is vice-chairman of the National Committee to Abolish the Poll Tax and a P.A.C. member, issued subpoenas for scripts of commentators heard over

WHKC.

• Refusal in Writing—Spurring C.I.O.'s drive for time is Radio Handbook, is sued by P.A.C., urging members, "when you shout—make it loud." When a station manager turns deaf ears to pleas for free time—or paid—C.I.O. members are to get his refusal in writing, copy the letter, attach explanations why his refusal is "unfair" and "send copies of his and your letter to James Lawrence Fly, Chairman, Federal Communications Commission, Washington, D. C."

Where will it end? Eventually in Congress, where many members long have felt a need for new radio legislation to bring the 17-year-old radio act

up to date.



#### WAITING FOR FILM

Customers waiting to buy film at one of the Fox photographic stores in San Antonio bring into focus the shortage of film amidst an unprecedented demand for snapshots. Selling film only on Fridays and Saturdays, Fox

units often find queues three-deep and a block long—requiring outdoor ushers. Receiving only about 50% of prewar supplies (BW — Mar.18'44, p36), most dealers ration one roll to a customer. And with so many soldiers and families anxious to exchange pictures, that's a mighty slim ration.



ONE OF THE GREAT DRAMAS of this age is the continuous effort of scientific research to enlarge and extend the uses of our natural resources. An outstanding example of the success of such efforts is slash pine, an abundant natural resource of the South that has had only limited industrial uses until recently.

To the late Dr. Charles Herty, the South's large areas of slash pine had always presented an industrial challenge. After years of study and experimentation, he finally demonstrated that this slash pine could be a source of valuable high-grade wood pulp suitable for the production of rayon.

Rayonier Incorporated developed the commercial method which is now being used to produce such pulp. The American Viscose Corporation, largest producer of rayon in the United States, cooperated with Dr. Herty in his early experiments . . . and in recent months has obtained a substantial portion of its wood pulp from south-

There promises to be a sizeable opportunity for southern agriculture in this new market for slash pine. It flourishes on land that is poor or even unproductive. It reseeds itself . . . requires very little care during the growing period... may be harvested in as little as ten years. Moreover, it can be of considerable aid in achieving crop diversification.

We are proud to have helped in the development of so promising an outlet for this natural southern crop.

#### AMERICAN VISCOSE CORPORATION

Producer of CROWN\* Rayon Yarns and Staple Fibers

Sales Offices: 350 Fifth Avenue, New York 1; Providence, R. I.; Charlotte, N. C.; Philadelphia, Pa. Plants at: Marcos Hook, Pa.; Roanoke, Va.; Parkersburg, W. Va.; Lewistown, Pa.; Meadville, Pa.; Nitro, W. Va.; Front Royal, Va.

BUY UNITED STATES WAR BONDS AND STAMPS

TESTED

A better way to buy Rayon Fabrics

This identification is awarded only to fabrics containing CROWN rayon, after they have passed the CROWN Tests for serviceability.

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# LOCOMOTIVES can't fly, but-

Some modern planes—big transports and heavy bombers—have individual wheel loads greater than the individual wheel loads of the heaviest steam locomotives. Even heavier planes are planned. Airport runways for safe and economical operation of planes must have pavements designed to carry anticipated loads.

Engineers of communities now planning construction of airport facilities can get the help of our engineers in designing concrete pavements which will carry any anticipated wheel loads and cost little to maintain.

#### **CONCRETE** the Versatile Structural Plastic

Concrete is the most widely used and versatile of construction materials, adapted to a multitude of uses besides low annual cost airports, highways and street payements.

Concrete is especially suited to building firesafe, low annual cost schools, hospitals, factories, attractive homes or towering dams. It is ideal for sanitary dairy barns, milk houses, granaries, or hog and cattle feeding floors.

Concrete offers you firesafety, long life and low annual cost.

We will gladly send you helpful literature on specific uses of concrete. Free in United States and Canada.

#### PORTLAND CEMENT ASSOCIATION

Dept. 8d-12, 33 W. Grand Ave., Chicago 10, Iil.

A national organization to improve and extend the uses of concrete...through scientific research and engineering field work

BUY MORE WAR BONDS



## Market for Planes

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Survey rates regions of U.S. in potential importance as postwar outlet for aircraft, parts and accessories.

The No. 1 potential postwar marketing region for aircraft, aviation parts, and accessories will be the Middle Atlantic states with their concentration of 7,278,911 families and 25.21% of the nation's buying income, according to a survey recently completed by Aviation Magazine, a McGraw-Hill publication, and published in its May, June, and July issues.

• Factors in Survey—The state-by-state survey, designed to assist manufacturers in setting up postwar distribution networks, took into consideration such factors as family population, buying income, retail sales, automobile, aircraft,

and pilot registrations.

The existence of 4,703 registered aircraft at 344 airports in the Middle Atlantic states indicates, according to the survey, the need for a substantial number of sales and service organizations.

• For New York Area—Distribution points are indicated for metropolitan New York at Long Island, Westchester County, or northern New Jersey, the magazine stated. Other desirable distribution points for the Middle Atlantic states are Buffalo, Philadelphia, and Pittsburgh, the survey indicates.

Since a large part of Connecticut could be served by the New York distribution area, Boston, according to the survey, is the next logical point from which to cover the New England area, which is rated seventh in importance. This region, including part of Connecticut, includes some 2,201,421 families and 8.27% of the U.S. buying income. • Overlapping Area—The recommended distribution area for the Middle Atlantic states, as revealed by the survey, spreads southward from Philadelphia and Pittsburgh to overlap the South Atlantic territories. But, the survey rates the eight South Atlantic states as the fourth distribution area in the country with their 4,278,771 families and 9.24% of the national buying income. Therefore the survey indicates need of a distribution point at Baltimore or Washington.

As population thins out southward the next distribution point, the survey states, would be Atlanta with the possibility of Miami to serve the southern half of Florida.

Base at Atlanta-Similarities in terrain, the survey states, make it possible to serve the lower half of the East

90 Business Week • August 26, 1944

South Central region—Alabama and Mississippi—from the Atlanta base. This region also includes Kentucky and Tennessee and has 2,622,203 families and 4% of the U.S. buying income.

If separate coverage is required for the whole East South Central area, Nashville would come closest to meeting the basic requirements of keeping dealers within 350 miles of their distributor, the survey reports.

tributor, the survey reports.

No. 2 Area—Second to the Middle Atlantic area is the compact East North Central region with 7,275,245 families and 22.82% of the nation's buying in-

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Here the most logical distribution points, according to the survey, would be Chicago and/or Detroit, with additional possible locations at Cleveland, Columbus, Cincinnati, Indianapolis.

• Twin Cities Region—The seven West North Central states are listed by the survey as the fifth important region with 3,688,149 families and 8.39%

of the buying income.

This area would best be served from the Twin Cities, the magazine reports, adding that Omaha could serve Nebraska and western Iowa, although Des Moines is also a possibility as are Davenport, Iowa, and Moline, Ill. Eastern Kansas, the survey indicates, would come within the area served by Kansas City, which would also extend to western Missouri.

According to the survey, eastern Missouri would be served from St. Louis, and Arkansas could probably be served from St. Louis or from a center located in the West South Central area such as Tulsa or Oklahoma City.

• No. 6 Area—In addition to Arkansas and Oklahoma, Louisiana and Texas constitute the West South Central region which the survey rates sixth in importance with a family population of 3,337,230 and 6.68% of the national

buying income.

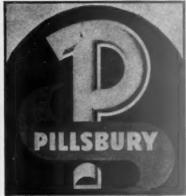
In Texas, Aviation Magazine reports, it is a toss-up between Dallas and Ft. Worth. However, the extent of the area to be covered, the survey reports, would indicate an additional distribution point such as Houston or San Antonio. If the 350-mi. radius is to be maintained, a distributor should be established at El Paso and another at Tucson or Phoenix, according to the survey. Mountain Region—The eight states of the mountain region are rated eighth, with 1,120,450 families and 2.49% of the buying income. Denver and Salt Lake City are termed attractive potential distribution centers in the mountain region, as are Billings, Mont., and Great

Falls, Missoula, or Butte.

A distributor in Seattle could cover all of the state of Washington and most of Oregon, but the survey states that

### Pillsbury Adds New Trademark





"Pillsbury's Best XXXX," trademark of Pillsbury Flour Mills Co. since 1872, now has a younger brother.

The famous barrelhead insignia is being replaced on package foods—pancake and cake flour, farina, corn meal, and hominy grits—by a capital P crossed by a swirl upon which is printed the word "Pillsbury." It will be used on all six sides of packages. The old trademark will be continued on other products.

• Story of "XXXX"—There's an in-

• Story of "XXXX"—There's an interesting story back of the "XXXX" in the old trademark. As recounted in the Pillsbury 1944 annual report,

the story is:

"It seems that three X's, arranged XXX, have been the symbol of bread for centuries and have been a symbolic allusion to the Crucifixion, with each X believed to stand for one of the crosses on Calvary. This symbol . . . in time was adopted by

medieval millers to mark the best flour for bread, and by medieval bakers to mark bread chosen for religious ceremonies. This use had died out long before Pillsbury Flour Mills Co. first came into being.

"However, Charles A. Pillsbury (founder) heard of this story of the lore of milling and immediately said, 'If three X's mean the best, then we'll add another just to show that Pillsbury's Best is really the best.'

"That, according to legend, is why the trademark shows XXXX...."

• Change of Name—As another move in streamlining the 75-year-old milling firm, the management has proposed that the name be shortened to Pillsbury Mills, Inc., as "more descriptive of its broadening activities." Stockholders will vote on this proposal Sept. 12, along with another to issue \$7,500,000 in preferred stock to retire outstanding bonds and increase working capital.

a concentration of facilities might indicate a second distribution point for this area at Portland, Ore. Northern California and part of Nevada, the magazine found, could be covered from San Francisco, and Los Angeles would be a natural center for the southern California area. The Pacific region, which contains these three states, is third in distribution importance with 3,013,172 families and 11.68% of the buying income.

#### RETAILERS POOL BUYING

Highlight in the trend toward pooled buying by retailers was the announcement this week of a new joint buying and promotion organization, Affiliated Retailers, Inc., by two of the country's biggest: R. H. Macy Co. and May Department Stores Co. Headed by Howard B. Barber, formerly division manager of major appliances at Montgomery Ward & Co., Affiliated Retailers will buy both durable and soft goods for the two organizations. It will also work with manufacturers in developing special lines of merchandise. Officials of the organization have announced that certain other retailers may be invited to join the new buying group.

For several months the two companies have had an agreement whereby Macy's corporate buying office made use of the May Co.'s Chicago buying facilities. The May Co. operates seven stores, in Los Angeles, Akron, St. Louis, Baltimore, Denver, and Cleveland. Macy's has five units, in New York, Newark, Toledo, and Atlanta. Combined annual sales volume is about

\$350,000,000.



## may cost many times the price of the Goggles that can prevent it



Figure it out for yourself-

The National Safety Council estimates that the average eye accident cost per injured man is \$328.00—and this includes only the actual dollars and cents which can be set down in black and white.

The "hidden" costs generally run four times this amount

for spoilage, idle machinery and lost production.

And when you consider that for about 75¢ per eye, AO Safety Goggles will protect a worker's vision . . . help him turn out more work . . . it becomes evident that furnishing AO Goggles for workers is an effective way to cut costs as well as provide protection.

Call in an AO Man and keep your "Production Eyes" Producing



## Fashions West

San Francisco reveals plans for \$4,000,000 style hub to include manufacturing as well as designing and styling. mo

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San Franciscans last week proudly announced plans for a \$4,000,000 fashion apparel center, a smaller edition of the \$88,000,000 project New York City is contemplating (BW-Jan.29'44, p19) in the scramble for fashion supremacy.

• To Cover 25 Acres—The San Francisco project, under consideration for five years, is planned to cover 25 acres and includes 37 buildings. It will be known as Apparel City, and its promoters expect to have the more than 350 San Francisco manufacturers as part of it. By contrast, New York would exclude manufacturers from its fashion center, limit activities to the cultural and artistic.

Incorporators of Apparel City, Inc., are long-established clothing manufacturers. Money for the land is being raised by the sale of \$100 par common stock. Each investor is held to a \$25,-

• Seeking RFC Loan—Once the projected \$750,000 is raised, Apparel City, Inc., expects to get a \$3,250,000 loan from the Reconstruction Finance Corp.

The new project will be not only a manufacturing center, in which electricity as well as materials will be purchased on a cooperative plan, but also a show place. Gantner & Mattern, San Francisco swimming suit manufacturers, has donated \$52,000 for a swimming pool.

• Its Own Postoffice—Buyers will find about anything in the clothing, millinery, or dry goods lines in Apparel City, as well as the services of a bank, restau-

rant, postoffice, and bar.

Once the city is built (the trade believes only the lack of building materials can detain it long) San Francisco will have the first project of its kind. Apparel City will manufacture all lines, competing not only with New York but also with Los Angeles and the couturiers of Hollywood. For the first time the Pacific Coast will have, in Apparel City, branch factories of the large eastern and midwestern manufacturers.

#### **NEW TEEN-AGE MAGAZINE**

Triangle Publications, Inc., will jump on the back-to-school bandwagon next week with the first issue of a new 15¢ monthly, Seventeen. The magazine will be edited specifically for teen-age girls

94 Business Week • August 26, 1944

by Helen Valentine, for five years promotional director of Street & Smith's Mademoiselle—which commands readership from a somewhat older feminine

group.

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Paper allotment for Seventeen comes from Triangle's now discontinued movie fan magazine, Stardom, but there the resemblance ends, say its editors. Seventeen will advise high school girls on fashions (in full color), beauty, movies, food, fun, and other teen-age interests. It also expects to advise advertisers on what it claims is a \$750,000,000 annual market among the country's 6,000,000 high school girls.

Triangle, which is promoting Seventeen through newspapers, spot radio announcements, young people's magazines like Scholastic, and high school students' own publications, also publishes Click, Screen Guide, and several

detective story magazines.



#### THIS MACHINE AGE

Elbow grease and a neat flip of the wrists were once deemed requisites for a good shoe shine. In Chicago's Union Station, rotary brushes operated by compressed air have raised the craft to a production line basis—with a consequent jump in business, and a decrease in labor costs. A 40% saving in time is reported, and the air is used to blast dirt from trouser cuffs, lint from coat lapels, but there is some head-shaking over the loss of the familiar tap-dance rhythm beat out by the polishing cloth in the hands of a skilled bootblack.

Business Week • August 26, 1944



 Almost every business that consumes raw materials can reduce handling costs—and so increase profit margins—by using electric trucks.

Take the case of the cannery which receives 10,000 ton shipments of fresh fruit delivered by highway trucks. Formerly boxes were unloaded by hand, then conveyed by gravity rollers to the storage area. There they were stacked by hand.

Now boxes are shipped in unit loads on pallets. At the cannery these are handled and stored by fork truck.

When the boxes of fruit are moved again from warehouse for canning, this method duplicates the saving. It adds up to a total of almost \$700.00 for every 10,000 ton shipment—a cost reduction of nearly 50%.

There are two plus values in this method. One is to make more efficient use of storage space. Now boxes can be stacked 14 high instead of only 10 as they were when piled by hand. The other plus is to make the job easier for workers because the method does away with tedious box-by-box handling.

No matter what kind of raw materials you use—or what kind of products you make—you will probably discover similar savings and advantages from introducing the unit load method and electric trucks.

To keep abreast of latest developments:

FOR MANAGEMENT: "Unit Loads"

Bulletin explaining a coordinating
materials handling system that involves practically every industry.

FOR TRANSPORTATION SUPERVISOR:
"Material Handling" Handbook
containing vital information necessary to the conduct of efficient interdepartment operations.

THE INDUSTRIAL TRUCK STATISTICAL ASSOCIATION 208 South La Salle Street • Chicago 4, Illinois



MANUFACTURERS OF TRUCKS: AUTOMATIC, BAKER: CRE. NT. EASTON, ELWELL-PARKER, LEWIS-SHEPARD, MIRCHRY, YALE BATTERIES EDISON, EXIDE, PHILCO ATTERY CHARGING EQUIPMENT: ELECTRIC PRODUCTS. PERINER

## LABOR

## Machinists Break

Although overtime ban is maintained in San Francisco, union won't punish any violators. Production picks up.

For the first time since Lodge 68 of the A.F.L. International Assn. of Machinists imposed its ban on overtime work last Apr. 17, production this week in the 104 San Francisco machine shops operating under Navy supervision approached a full-time, all-out basis.

• Union Won't Penalize—Although the overtime ban persisted in defiance of warnings from Washington, the local union promised its 5,000 members that they will not be penalized if they choose to work a ten-hour day and 60-hour week, instead of the eight-hour day and 48-hour week that prevailed until President Roosevelt ordered the Navy to take over.

What smoothed the path for Rear Adm. Harold G. Bowen in crumbling the union's stubborn opposition to overtime work was the authority vested in him by Economic Stabilization Director Fred M. Vinson and War Manpower Commission Chairman Paul V. McNutt to exercise drastic sanctions (box, below) against anybody who refuses to obey his orders.

• Deferments Canceled—Bowen lost no time in exercising the authority. This week he ordered cancellation of 49



Rear Adm. Harold G. Bowen calls for management's strict cooperation as well as labor's obedience in the bitter struggle of San Francisco machinists for freedom from overtime work.

### Union Sanctions-How They Work

The Administration has a new weapon for crushing strikes—drastic penalties against workers and unions.

It took a year to bring the penalties to bear. Although authorized by executive order in August, 1943, to provide additional means of coping with John L. Lewis, president of the United Mine Workers, the penalties gathered dust on the shelf until the stubborn four-month refusal of San Francisco machinists to end a ban on overtime work forced action.

 Seizure Didn't Work—The old technique of seizing and operating the plants to put the men in the position of defying their government proved insufficient.

The Navy then announced that it had the approval of Economic Stabilization Director Fred M. Vinson to blacklist all employees who refuse to obey orders, to take occupational gasoline rations away, to order draft reclassifications, to take away all union privileges.

o Secondary Penalty—Removal of gasoline rations in such a case is only a secondary penalty since public transportation is available. Draft reclassification only affects the few able-bodied men of draft age remaining in civilian life. But blacklisting affects everyone except the union business agents. Withdrawal of union privileges hits them.

Blacklisting was set up by order of Vinson to War Manpower Com-

mission Chairman Paul V. McNutt. • Referral Powers Lost-Applying the technique in the San Francisco case, Vinson specified that: (1) the union-Lodge 68 of the A.F.L. International Assn. of Machinists-was to lose its rating as an authorized WMC referral agent; (2) all employees refusing to obey valid Navy work orders were to be denied certificates of availability and referral cards to other jobs; (3) employers were to be warned not to hire blacklisted workers under penalty of having other employees taken away; (4) workers were to be blacklisted whether they were technically discharged or remained as employees, thereby getting around WMC regulations granting automatic job releases to discharged workers.

• How Union Is Hurt-Union privileges were withdrawn by the National War Labor Board at the request of the Navy Dept., with the approval of President Roosevelt, in accordance with the Connally-Smith act. This means that contract provisions giving the union preferential hiring rights and the right to grant clearance cards to nonunion members are withdrawn, as was a clause giving the union the right to refuse to work with nonunion members. The union is denied the right to participate in grievance settlements. It only retains its basic Wagner act right to represent the affected workers in collective bargaining.

draft deferments in the first five plants he seized. Preinduction physical examinations for the 49 were scheduled so that inductions could begin by Aug. 31.

From the employers, too, Bowen demanded full cooperation under threat of installing his own management.

• Token Gesture—Seizure of the first five plants was a token gesture intended to demonstrate the government's wartime power over production slackers. To avoid prosecution under the Connally-Smith War Labor Disputes Act, forbidding interference with operation of government-held facilities, the union permitted members in these shops to violate the overtime ban.

But in the other 99 shops the union maintained the prohibition until President Roosevelt ordered them seized by the Secretary of the Navy. Then the union called a special meeting, voted down a resolution to rescind the ban, but agreed instead not to punish those who choose to ignore it.

• Pressure Move—The overtime ban itself was merely a token when it was conceived and applied four months ago by E. F. Dillon and Harry Hook, business agents of Lodge 68. It was employed as a pressure move on the National War Labor Board to accelerate

action on the union's new contracts.

NWLB didn't yield to pressure.

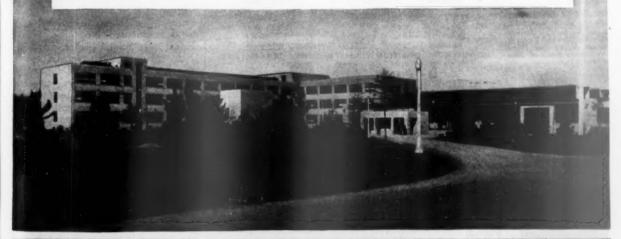
Some weeks ago the board informed Lodge 68 that no consideration would be given to the new contract until the overtime ban was lifted. NWLB has refused to budge from that position.



◆ TELEVISION RAYS—like human sight—do not "bend" far beyond the curvature of the earth. They travel in a straight line to the horizon—and from the horizon off into space. In preparing television as a service to the public, research has sought ways to extend television's program service by radio relaying from city to city.

A solution to this problem has been perfected by RCA engineers: the radio relay station—capable of picking up and automatically "bouncing" television images from station to station. With such relays supplementing a coaxial cable, entertainment, sports and news events could be witnessed simultaneously by Americans from coast to coast.

Today, RCA's research facilities are devoted to providing the Allied fighting forces with the most efficient radio and electronic equipment available. Tomorrow, these same skills and energies will continue to serve America in developing and creating new and finer peacetime products.



RADIO CORPORATION OF AMERICA

RCA leads the way in radio—television electronics





DROP FORGING was originally just DROP forging-forging or working a piece of hot metal by dropping a weight on it. But steam drop hammers of today ACCELERATE the gravity drop adding greatly to the force of impact. The forming of the finished forging is accomplished by means of two sets of dies. The acceleration of the blow by steam or air power, and the fact that the forming of the metal is accomplished between dies, makes the term "Impact Die Forging" more accurate, but "Drop Forging" is still the more commonly used commercial term.

The great virtue of the drop forging is the strength, the resistance to shock loads and the toughness imparted by the impact of hammering. The flow of the grain structure of the metal follows the shape of the part, greatly strengthening it against high instantaneous stress, as shown in the diagrams and photo below:

TYPICAL DROP FORGINGS BEFORE AND AFTER MACHINING AIRPLANE ENGINE CRANKSHAFT & DAMPENER AIRPLANE ENGINE MASTER & CONNECTING ROD

LARGE CHAMBERSBURG STEAM DROP HAMMER Below is shown a hammer weighing 760 Tons. Weight of the ram is 22% Tons. Dosted line indicates floor level. Most of anvil is underground.



BAR STOCK



SECTION OF DROP FORGED CRANKSHAFT ETCHED TO SHOW GRAIN FLOW Other virtues of drop forging are:

REDUCTION IN WEIGHT

Light weight combined with great strength is characteristic.

CASTING

MINIMUM OF MACHINING Less machining is necessary than with parts formed by other methods.

SAVING IN MATERIAL There is less metal scrap than from bar stock or casting. NO INTERNAL FLAWS

FORGING

Working of metal from a solid bar eliminates possibility of internal defects.



Drop forgings produced on Chambersburg Hammers have these virtues to a superlative degree.

CHAMBERSBURG ENGINEERING C CHAMBERSBURG . PENNSYLVANIA

## Panel Says No

Tribunal weighing G.M. case for NWLB rejects all wage proposals. Now it's up to the national board.

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Stripped to the essentials, the 50,000 words with which the fact-finding panel of the National War Labor Board reported on the stalemate in negotiations between General Motors Corp. and the C.I.O. United Auto Workers means "No."

• Clean Sweep-No to the union's assorted wage demands; no to the proposal that G.M. set aside funds for postwar unemployment benefits; no to the corporation's proposal that maintenance of membership be dropped from future contracts; no to G.M.'s incentive pay proposals.

Now it's up to the national board, which heard oral arguments this week on the panel's findings, to decide the final shape of the master agreement governing the work of some 270,000 employees in 70 G.M. plants.

• General Increase Vetoed-To the proposal of a general wage increase to bring hourly pay into line with wartime advances in the cost of living, the panel replied that the 10¢ an hour given G.M. workers in May, 1941, and the 4¢ granted in October, 1942, amounted to the 15% permissible under the Little Steel formula.

The panel took a slap at the U.A.W.'s demand for equal pay for equal work as a device to destroy "present policy of sound and tested going rates," and it noted that the lower tribunal was being petitioned, in this instance, to "act as the instrument through which the demand is initiated into other governmental agencies of higher authority." Quite obviously the panel did not be-lieve its frowns would end the matter. • Evidence Lacking-As to guaranteed annual wages, the panel took no flatfooted position, but it mentioned the lack of evidence bearing on the effect of annual wages on production. Setting up an unemployment fund for postwar distribution was viewed by the panel as a violation of NWLB wage regulations in that the disbursement would be tantamount to retroactive pay.

Consideration of G.M.'s incentive pay proposal apparently was influenced by a belief that worker distrust in piecerate systems is bred in the production changes incident to the war program. The panel observed that such systems operate more satisfactorily in peacetime automobile production which involves fewer changes in jobs.

Right - for those who wear the Purple Heart

Now he's on his way. The hospital train will take him to convalescence close to home and family.

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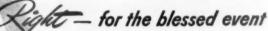
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This hospital on wheels is staffed and equipped to handle his every need on the journey. Throughout, it is flooded with a new kind of light—cool and glare-free fluorescent. It is easy on the eyes of wounded men. It helps doctors and nurses do their jobs.

This lighting equipment, like everything else on the hospital train, is the last word. Fixtures and lamps are manufactured by Sylvania, which means they are built to one standard—the highest anywhere known.





Whom the new baby looks like will be decided under fluorescent — and this softly diffused light will rest Mother's eyes.

Cool, comfortable fluorescent, with its high efficiency and accurate color control, will find many uses in the modern postwar hospital. And this new kind of light is the most economical known.

Fluorescent light that is engineered to hospital needs will be a specialty of Sylvania—pioneer in lighting, pacemaker in the fluorescent field. It will, of course, be made to Sylvania's one standard—the highest anywhere known. Sylvania Electric Products Inc., 500 Fifth Avenue, New York 18, N. Y.



## SYLVANIA

ONE STANDARD-THE HIGHEST ANYWHERE KNOWN

BUY WAR BOHDS



#### RADIO TUBES

— Sylvenie van first to develop a complete lies of 1.5-west radio tobes which draw their power from a single dry call battery. This mode the consecu-type portable radio sal the rage of 1938. It also sal in holf the bottery vanight our boys in the military communications



#### ELECTRONIC DEVICES

- Heart of your postward relevation set will be a carhede ray take. This electron take is one of many types that Sylvania is even now producing Work in the field of electronics is a definite part of the sylvanian in the field of electronics is a definite part of the sylvanian set o



#### CAMPA AND HITTIRE

Sylvania is planear in lighting -- pacematizer in the fluorescent field. Sylvania is the loading monoracturar of Rearescent flutures. Sylvania lamps in Sylvania Agrutes give fluorescent performance of the Bood





## Correct it with SPEEDI-DRI

OIL-SWEATING, greasy, slippery floors are no longer a hazard in plants which have discovered SPEEDI-DRI. SPEEDI-DRI provides no skidding and no kidding! This oil-thirsty, fire-retardant compound promptly soaks-up ingrained grease . . . without scrubbing. Simply spread SPEEDI-DRI, in every department, on oily areas; then sweep it up . . . and, with it, all greasy soakage. Wood, concrete, and metal floors regain their original surfaces. Aisles are brightened, cleaning-labor saved, plant morale lifted, production speeded. Join the rush of industry's top-flight maintenance-men to the use of SPEEDI-DRI, the original oil and grease absorbent. Write for literature and FREE SAMPLE—today!

SUPPLIERS: East — Refiners Lubricating Co., New York 1, New York.

Midwest & South — Waverly Petroleum Products Co., Philadelphia 6, Pa.

West Coast — Waverly Petroleum Products Co., Russ Bldg., San Francisco 4, Calif.



## Weirton at Grips

NLRB revives old C.I.O. feud in charge that steel company defies court by dominating Weirton Independent Union.

Weirton Steel Co. and the C.I.O. United Steelworkers of America have squared off again for another round in their knock-down-and-drag-out fight, and all the old deep-seated bitterness has once more flared into a rash of name-calling and calculated maneuvering.

• No Holds Barred—Industry, labor, and the public generally have looked on for years while these two antagonists mauled one another about the ring, with no holds barred and no quarter asked. But they are so evenly matched that neither has been able to land a

haymaker.

It began back in 1936, when the Steel Workers Organizing Committee, predecessor of the United Steelworkers, began organizing the traditionally openshop steel industry (BW-Jun.27'36, p15). The highlight was a 17-month National Labor Relations Board hearing on the union's charges of unfair labor practices that wound up with the NLRB ordering the company to disestablish two allegedly management-dominated unions and rehire 17 workers who claimed they were dismissed for union activity. The hearing began in August, 1937 (BW-Aug.21'37,p15), and ended in January, 1939.

• Drive Intensified-Latest exchanges occurred last winter when the C.I.O. intensified its eight-year effort to bring Weirton's 12,000 employees at Weirton, W. Va., and Steubenville, Ohio, into the fold. A series of skirmishes occurred at the gates of the Weirton plant, a few heads were broken, and the governor of West Virginia finally sent in a force of state troopers to keep the boys apart. The "boys" were the organizers of the C.I.O. who were seeking to distribute handbills, and members of the Weirton Independent Union, which holds an exclusive bargaining contract for Weirton's employees, who decided to pass out a few circulars of their own (BW-Apr.22'44,

Outcome of this was the indictment last Apr. 10 of 30 members of the C.I.O. union on misdemeanor and felony charges. All but one have posted bond pending a hearing at New Cumberland, W. Va., on Sept. 12 on a motion for a change of venue. The C.I.O. contends that its members cannot receive a fair trial in Hancock County.

#### WEIRTON IN REVIEW

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Here is the chronology of the battle that has engaged the Weirton Steel Co. and the C.I.O. for the past eight years:

June 17, 1936-C.I.O. launches its campaign to organize the steel industry into the Steel Workers Organizing Committee.

May, 1937-S.W.O.C. files charges of unfair labor practices against Weirton Steel Co. with National Labor Relations Board.

Aug. 16, 1937-NLRB trial examiner opens hearing at New Cumber-land, W. Va. Sessions later were held at Steubenville, Ohio, Pittsburgh, and Washington.

Jan. 30, 1939—Hearing ended, after 8,000,000 words of testimony which filled 40,000 pages; some 500 witnesses were examined, and 4,000 exhibits were introduced.

June 27, 1941—NLRB orders Weirton to cease discouraging membership in the S.W.O.C., to disestablish two allegedly company-dominated unions (Weirton Steel Employes Representation Plan and Weirton Steel Employes Security League), and to reinstate with back pay 17 workers found by the board to have been dis-

missed because of union activity.

July 8, 1941—Weirton signs an exclusive bargaining contract with the new Weirton Independent Union a week after the W.I.U. served its de-

mands on the company.

May, 1942—NLRB asks Third U. S. Circuit Court of Appeals to enforce its order of June 27, 1941.

July 8, 1942—Weirton petitions

third circuit court for stay of pro-ceedings filed by NLRB and for appointment of a master to take additional testimony on the grounds that the trial examiner and the NLRB were biased in favor of the S.W.O.C. Both sides agreed that the company had complied with "90%" of the order, including abandonment of the two old unions.

May 18, 1943-Circuit court upholds NLRB, and orders company to cease practices in violation of the National Labor Relations Act.

Feb. 17, 1944—C.I.O. intensifies its organizational activities; disorders

occur at plant gates.

Mar. 11, 1944—More disorders.

Apr. 10, 1944—Thirty C.I.O.
members indicted at New Cumber-

land for alleged misdemeanors and felonies arising from disorders at

Apr. 24, 1944-Hearing on motion for change of venue continued until Sept. 12

Aug. 10, 1944-NLRB asks circuit court to hold Weirton Steel Co., National Steel Corp., and the W.I.U. in contempt of court, charging that the steel company and its parent dominate the independent union.



Most leading machine-tool builders protect you against failure at critical points . . .

- with parts of wear-resisting

## Ampco Meta

Check for this protection, when you look at the specifications of machines you buy - for you know that the name "Ampco" stands for longer life, several times that of ordinary bronzes, This remarkable alloy of the aluminum bronze class has been adopted by over 90 leading machine-tool makers - where they need exceptional strength, or resistance to wear, shock, and fatigue. Be sure you get it on your new machines - and insist that replacement parts for your older machines be made of durable Ampco. Write for catalog.





Bullard machines, built by The Bullard Company of Bridgeport, Connecticut, include over 60 different parts of Ampco Metal an outstanding indication of the excellence of their product,

Ampco Metal, Inc. Dept. BW-8 Milwaukee 4, Wis.

**Ampco Field Offices** in Principal Cities

#### **Ampco Metallurgical Specialties**

Ampco Metal . . . Ampcoloy (general industrial bronzes) . . . Special Copperbase alloys.

Sand Castings . . . Centrifugal
Castings . . . Extruded and other
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where the indictments were returned.

• Contempt Citation—Things became relatively quiescent until this month when NLRB, in the Third U. S. Circuit Court of Appeals in Philadelphia, cited Weirton Steel, its parent concern, National Steel Corp., and the W.I.U. for contempt of a court decree of May 18, 1943, forbidding practices in vio-lation of the National Labor Relations

Act (BW-Jun.5'43,p89). NLRB charged that the W.I.U. is company-dominated and that the company used violence and encouraged others to use violence to hinder organizational efforts of the C.I.O. An answer must be filed by Sept. 9, and the defendants must appear in court a month later.

• C.I.O. Influence Charged-This led to cries of "sabotage of the war effort" by the independent union and an allegation by the W.I.U. that the NLRB was under the influence of the C.I.O. which greeted this development with silence.

In retrospect, Ernest T. Weir, board chairman of National Steel and bitter foe of the C.I.O., seems to have done a good job of beating off the enemy. What the future holds is another question. The C.I.O. is putting everything it has into the drive against Weirton as a symbol that must be destroyed to maintain union prestige.

## Heat on for Ships

Seven-day work-week is ordered in two Portland area shipyards to speed building of more Navy transports.

More bad news for Japan was announced last week in the Portland (Ore.) area by the U. S. Maritime Commission which ordered the Oregon Shipbuilding Corp. and the Vancouver Shipbuilding Co. on a seven-day workweek, starting Aug. 28.

• Building Transports-For the next ten Sundays approximately 60,000 workers will put in the extra time building a type of transport which is urgently needed by the Navy. Built on a Victory ship hull, these new transports have

many secret features.

Because the need is urgent, the vessels rate No. 1 priority on the Navy's list, as escort aircraft carriers did last fall. In October, November, and December, 1943, the Maritime Commission put the Vancouver (Wash.) shipyards on a straight seven-day week.

• First Launching-The Oregon Shipbuilding Corp., which has a contract for 30 of the new transports, last week launched the first one built in any U.S.

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#### AND NO WIRE PULLING

Surveyors transits are put to work at Douglas Aircraft's Los Angeles plant to lop hours off the difficult job of aligning production jigs-necessary for the interchangeability of parts in large aircraft assemblies. Formerly piano wires were stretched as vertical and horizontal guides, a method

which required from five to six hours, and became more troublesome as jigs grew more complex. As the result of a worker's suggestion, transits were employed for the task, and now the aligning takes less than 45 minutes. The wrinkle-available to all aircraft manufacturers-is reported to have saved one southern California plant \$15,000 on the cost of a single jig.



Remember the stories of "The Knights of the Round Table" — those armored warriors of legend who mounted "fiery steeds" and dashed hither and you to perform deeds of chivalry and mercy! They are sagas of service that have kindled the imagination for generations.

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Today, we have other "knights of the round table"

not legendary, but <u>real</u> . . . powerful railroad locomotives that are rolling continuously off "round tables", speeding over heavy rails of steel to every part of America — on vital missions of service.

They are the power that is keeping tens of thousands of trains rolling day and night — for war; the

PRECISION

power that is delivering to ports the mountains of machines, munitions and supplies which our fighting men and our fighting Allies must have to smash on against the enemy at full invasion speed.

To its mighty array of "knights of the round table" the Norfolk and Western, within recent years, has added 146 new locomotives . . . locomotives that are among the most modern and powerful in the world . . . designed and built by N. & W. forces in N. & W. shops. The Norfolk and Western is proud of these mighty "knights" of power — for they are rolling as never before, performing a service that is helping to speed the day of Victory.

Notfolk and Westerre

TRANSPORTATION





AMPLICALL Paging and Two-Way Communications Systems effectively bridge the gaps when there is muchwork to do and too few hands to do it. AMPLICALL's multiple uses are making it possible for thousands of plants to effect immense savings of time and steps...get much more done daily with the same manpower! High quality construction, perfect tonal sound and flexible design are the factors behind the outstanding success of AMPLICALL. Your inquiry is invited.

Electroneering is our business

Rauland

RADIO...RADAR...SOUND...COMMUNICATIONS
Rauland employees are still investing 10% of their salaries in War Bonds
The Rauland Corporation.. Chicago 41, Illinois

yard when the U. S. S. La Porte slid down the ways at Portland. The Vancouver yard will build 23.

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Within a few days the Maritime Commission is scheduled to announce a seven-day week for approximately 30, 000 workers at one of Henry J. Kaiser's yards at Richmond, Calif. This yard will build 22 of the transports.

• \$1,000,000 a Week—The lengthened work-week should have a deterring effect on the hundreds of workers who monthly desert Pacific Coast shipvards in the belief that the war is almost over.

Under the Pacific Coast master agreement, shipyard workers receive double time (about \$2.40 an hour) for Sunday work. And the double time means that the U. S. will pay out more than \$1,000,000 for wages each Sunday in the two Portland area yards alone.

• Some Discord—But all is not too well in relations between shipyard workers and Henry J. Kaiser on one score. A spokesman for one A.F.L. metal trades group charges that often the worker doesn't get a continuous work-week and that the day that he is off is charged against him as his premium-pay day.

#### NEGRO ISSUE RAISED IN L.A.

Los Angeles is watching with apprehension the germination of a race problem identical with the one which resulted in Army seizure of the Philadelphia transit lines (BW—Aug.19'44, p.108).

In the California city, the A.F.L. Amalgamated Assn. of Street, Electric Railway & Motor Coach Employees, after three meetings, finally polled a majority vote for accepting Negroes as union members.

As in Philadelphia, the President's Fair Employment Practice Committee played a dominant role. First, the FEPC ordered the Los Angeles Railway Corp. to cease and desist from refusing to accept Negroes for jobs as operators and conductors. Then the committee won over the officials of the union.

Now, although many white workers have threatened to strike in protest, the traction company expects to start a 20-day training period for Negroes on Aug. 30 and to assign trained Negroes to streetcars and buses by Oct. 1.

#### HIRING SYSTEM PAYS OFF

With 98% of its war veterans who have been hired since May still on the job with the highest production rate and lowest absenteeism, Northrop Aircraft, Inc., of Hawthorne, Calif., is impelled to tell how it's done.

Former servicemen are hired outside

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the regular hiring system. The veteran is interviewed to disclose background, skills, aptitudes, and physical handicaps, if any. Then the job selected is fitted to the man. Assistance is offered to the veteran in reestablishing a home, finding transportation, and winding up any unfinished business with the govemment.

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#### WARD REFUSES ARBITRATION

Montgomery Ward & Co. this week again refused to obey an order of the National War Labor Board. Ward notified NWLB that it rejected a directive to submit unsettled union grievance cases to Judge William L. Knous, recently appointed by the board to act as impartial arbitrator for some 40 such cases accumulated since C.I.O.'s wholesale and retail workers union contract expired last December (BW-Aug.5'44,p101).

At the same time, the company filed suit in federal court for a judgment to restrain Judge Knous from carrying out the NWLB assignment on the ground that he had no power to make binding awards. NWLB took



#### TRAY FOR PARTS

Saving time and effort on aircraft assembly lines is a new tray that prevents spillage and loss of such tiny parts as nuts, bolts, and washers. Fitted with a plastic cover which opens to only one section at a time, the compartmented container keeps parts segregated and thus saves resorting departments much of the work formerly resulting from spills. It's used at North American Aviation, Inc.



## A fighting man's "LUNCH BOX"... Mr. Cellophane guarding the rations

VITAL INVASION RATIONS ... are sealed in a two-ply Sylvania cellophane Ration Bag. Coffee, sugar, crackers, chocolate—and other items easily spoiled by moisture-arrive on the beachheads perfectly preserved, thanks to that double-walled protection of cellophane. Sylvania bags are moisture resistant, water-repellent and extremely tough.

Sylvania cellophane appears on all fighting fronts in many important roles. But from the developments Sylvania has under way today, you can look forward to many more uses for cellophane-and better cellophane-in the postwar tomorrow.

## SYLVANIA CELLOPHANE

Made only by SYLVANIA INDUSTRIAL Corporation

Manufacturers of cellophane and other cellulose products since 1929



Business Week . August 26, 1944 105 General Sales Office: 122 E. 42nd St., New York 17, N.Y. \* Works and Principal Office: Fredericksburg, Va.



It's love at first sight when electricity goes to work down on the farm...electric refrigeration keeps milk and produce fresher, appliances make chores easier and housework lighter, while an electric pump helps make running water possible.

Few farmers, probably, stop to realize how much this hard-working new"hand"owes to one of the oldest of metals—copper. Yet it was copper's unique combination of electrical conductivity and practical economy that made possible the distribution of low-cost power...with its numerous benefits to city and farm.

Other familiar characteristics of copper and its alloys—resistance to

For your convenience Chase maintains Sales Service Offices throughout the country corrosion, ease of working and forming—make this ageless metal adaptable to a wide range of fields, and in a number of different ways.

Chase's war experience working with copper is bound to be reflected in the new, improved products of peacetime. More than likely, you will recognize the familiar Chase trade-mark in many of the things you'll buy—yes, and make—once the war is won.

Chase Brass & Copper Co. Incorporated, Waterbury, Connecticut— Subsidiary of Kennecott Copper Corporation.

Chase BRASS & COPPER

jurisdiction of the grievances as disputes under the Connally-Smith act.

Board officials predict that, if friction again develops to the point of plant seizure, the showdown will come over the arbitration issue.

#### TEXTILE DISPUTE ENDED

With the signing this week of a contract between Botany Worsted Mills of Passaic, N. J., and C.I.O.'s Textile Workers Union, one of the country's oldest and hardest-fought labor disputes was settled.

The contract provides for a 40-hour week with overtime provisions, equal pay for men and women, and social insurance protection paid for by the company. By mutual consent of the union and the company, wage negotiations were held in abeyance pending a decision by a special panel of the National War Labor Board.

Back in 1926 Botany employees spearheaded a general textile strike in the Passaic Valley which lasted 14 months. They lost the strike, but groups of workers continued to make sporadic efforts toward unionization and last December T.W.U. won a National Labor Relations Board election among the 4,500 employees.

The company immediately protested on the grounds that Botany workers serving in the armed forces had not been given adequate opportunity to participate. While the NLRB was considering the case, Botany brought suit in the U.S. District Court for the District of Columbia to force NWLB to act immediately on applications for wage increases (BW-Mar.4'44,p112). NWLB had refused to act while a labor dispute was in progress.

#### VETS RETURN TO STEEL

More than 10,000 veterans—one out of every 20 of the 214,000 steel workers who have gone into military service—are back working for their former employers in the steel industry, according to a recent survey made by the American Iron & Steel Institute.

Only 600 ex-servicemen switched to other steel companies when they were seeking re-employment, and about 3,400 veterans not previously employed in steel plants are now working in the industry. The total number of steel workers who went into military service is approximately 38% of present employment.

Although less than 2% of the veterans have come back with disabilities that require special handling, a large part of the steel industry has set up special interview procedures and rehabilitation plans for servicemen.

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# The Travels of a Ton of Ore



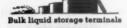


CORPORATION

Chicago



Builders and operators of specialized railroad freight cars



Pressure vessels and other welded equipment



Aerocoach motor coaches



Process equipment of all kinds



Precooling service for fruits and vegetables



From the ore, finished steel is made in a plant using General American Plate and Welded equipment.



The steel becomes part of the light, sturdy, economical Aero-coach busses built by General American.



One by-product of steel-making is benzol—chemical of a thousand industrial and home uses, carried in General American tank cars to....



...a General American tank storage terminal, where it is given fast, safe handling.

One of a series of advertisements designed to show General American's contribution to everyday living and our part in the efficiency of American Industry during war and peace.



AN elderly workman, who had operated a 'Load-Lifter'. Hoist for many years, always referred to it by this nickname. It is a perfect description of this hoist which was designed for tough lifting jobs and long, trouble-free service.

More than brute strength is involved. Features not found in their entirety in any other hoist are responsible. Here are some of them:

- 1. "One-point" lubrication.
- Roller Bearings and Ball Bearing Motor.
- 3. Safety upper stop; lower blocks, sure brakes.
- Two-gear reduction drive; sealed against oil leaks; steel interchangeable suspension.

Within their capacities, 'Load-Lifters' are adaptable to practically any kind of lifting. If you have unusual conditions write to us about them. Our engineers may find an exact parallel in their experience or they will recommend just what you need.

'Load Lifter' electric hoists are built with lifting capacities of 500 lbs. to 40,000 lbs. Write to us or to any of our Distributors. For detailed information ask for Bulletin 215.



## LOAD LIFTER

MANNING, MAXWELL & MOORE, INC.
MUSKEGON, MICHIGAN

Builders of 'Show-Box' Cranes, 'Budgit' and 'Load Lifter' Hoists and other lifting specialities. Makers of Ashcroft Gauges, Hancock Valves, Consolidated Sofety and Relief Valves and 'American' industrial instruments.

## Lewis Expanding

Series of NLRB strike ballots in four states reveals U.M.W.'s plan to turn on heat for mines' white-collar men.

John L. Lewis has pulled out all the stops in his drive to organize the whitecollar workers of the mining industry, and it looks as though the soft coal fields are headed for a new crisis.

• Battleground Chosen—Central and western Pennsylvania, West Virginia, Virginia, and Kentucky have been chosen by the United Mine Workers' chieftain as the battleground for a showdown fight for recognition of his United Clerical, Technical & Supervisory Employees Union, a unit of the U.M.W.'s District 50.

The campaign erupted suddenly last week when supervisory employees voted to strike two mines of the Ford Collieries Co., at Curtisville, Pa., after waiting the allotted 30-day "cooling off" period prescribed by the Connally-Smith antistrike act. Only 39 workers were involved, but the mines were shut down and 850 others made idle because the supervisors have the job of inspecting the pits, which must be examined before each shift under mining laws. By

midweek six mines were affected and 5,000 miners were idle.

• More Votes Scheduled—The National Labor Relations Board announced that supervisors employed at some 75 mines in the four states will take strike votes within the next three to four weeks.

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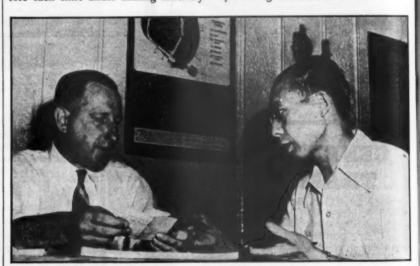
Operators expressed alarm at the trend of events, and Byron H. Canon, secretary-treasurer of the Western Pennsylvania Coal Operators' Assn., commented that the future looked none too bright.

• Balk at Bosses—The operators have refused to recognize the union on the contention that bosses cannot belong to the same organization as the men under them. They cite the NLRB's Maryland Drydock decision (BW-May15'45, p8), which held that supervisory employees do not constitute appropriate collective bargaining units.

collective bargaining units.

A decision by NLRB last June dismissed the union's petition for the right to represent technical and clerical employees at eight mines of the Rochester & Pittsburgh Coal Co., Indiana, Pa., three of whose operations were affected by the strike votes last week. Supervisory employees were specifically excluded by the union in this case, but the board held that the supervisors exercised a strong influence in union affairs (BW-Jul.8'44,p103).

Supervisory workers are not covered by existing U.M.W. contracts.



#### FOR CHINESE ONLY

In a newly opened office on Mulberry St. in New York's Chinatown, George R. Gibson, Bendix Aviation plant personnel manager, interviews Fong Shing-Chong, applicant for a job. Main purpose of the recruiting drive is to relieve the tight manpower situation, but Bendix—having hired Chi-

nese previously—is anxious to get more for precision instrument assembly. Some of the recruits will work as interpreters for groups of Chinese nationals now at Bendix to learn American manufacturing methods. After the war the technical skills of both—nationals and Chinese-Americans—may prove vital factors in China's plans for industrialization.

## WAR AND BUSINESS ABROAD

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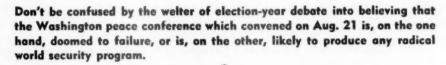
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Basic principles were actually drawn up last year at Cairo and Teheran, and Secretary of State Cordell Hull has kept a bipartisan senatorial committee fully informed about all plans.

The technicians conferring in Washington this week are merely attempting to translate these principles into a working agreement which can be offered to all United Nations governments for their approval.

Cantankerous details which will have to be ironed out before the new League of United Nations can begin full-scale operations will be avoided until after the November elections.

Both Russia and Britain realize that postwar plans have become a major election issue in the U. S. and so are moving cautiously.

Neither will overlook the smallest suggestion from Secretary Hull for fear of upsetting the Administration from which each has its only postwar U. S. commitments—however tenuous they may be.

But neither will either of these governments do anything directly to antagonize the Republicans, in case they are in control after November.

China will not enter the picture until the third week of the conference when Russia will withdraw while security measures directly affecting Japan (with which Moscow is not at war) will be discussed.

Actually, you should not expect China to play an active role in maintaining postwar world security until (1) its own government is stabilized, and (2) a vast new program of transport and industrial development is carried out with the assistance of the three other members of the Big Four.

Foreign trade issues will be kept under cover until after the election, but if you are on your toes, you won't wait until then to appraise the effect on your business of some startling new developments in this field.

Despite rigid trading controls which still have not been removed, large foreign orders for equipment are already being placed in this country.

**Brazil** is negotiating in this market for textile machinery, railroad equipment, and trucks (BW—Jun.3'44,p112). **Peru** is shopping for chemical plant and steel mill supplies (BW—Aug.5'44,p112). And **Mexico** has been granted special priorities on 15 diesel locomotives as a first order to meet the country's desperate transportation crisis (BW—Aug.5'44,p112).

Bigger potential business is now in the offing with a newly enlarged French purchasing commission which is planning to place an estimated \$2,000,000,000 of orders here on a "bulk purchase" basis until France is completely liberated, private business is unscrambled from the Nazi influence, and blocked French funds are released.

You can expect foreign trade in most liberated areas to remain a government monopoly during a transition period which almost certainly will last longer than a year.

Don't overlook the fact that centralized buying agencies are now maintained in Washington by Britain, China, France, India, Mexico, Australia, New Zealand, South Africa, The Netherlands, Netherlands East Indies, and

## THE WAR AND BUSINESS ABROAD (Continued)

BUSINESS WEEK AUGUST 26, 1944

Czechoslovakia, in addition to the long-established Russian government trade monopoly.

Equally drastic changes can be expected in the postwar flow of foreign trade.

Look for imports of silk and natural rubber to be slashed to a fraction of prewar levels. The same will be true of fertilizer and vegetable oil imports, though for these two the reduction may be considerably less drastic.

On the other hand, you should not be surprised if this country soon begins to boost its imports of copper, lead, and zinc—and, eventually, of high-grade iron ore.

Gear your business to postwar imports of at least \$5,500,000,000 (compared with a prewar average of barely \$3,000,000,000).

Also, if nonpartisan advice from this country's leading economists is followed, tariffs will be reduced on such items as sugar, fresh vegetables (in off seasons), eggs, butter, cheese, meat, wool, and copper, most of which are now protected by tariffs of more than 50%.

While government technicians estimate that postwar exports will amount to at least \$7,000,000,000 by 1948 (when business is expected to be back in normal channels), don't expect your share to be proportionately upped if you are in the luxury trades.

Even with dwindling government controls (priorities, shipping, foreign exchange), biggest export gains are almost sure to be in the fields of machinery, farm implements, trucks, locomotives, and roadbuilding, construction, and mining equipment.

Patterns of controlled buying—set originally by Russia and now followed, though less rigidly, by such countries as Brazil and Mexico—will steer orders for heavy equipment to this country where they can be filled most promptly and at the lowest prices.

**Biggest immediate export markets** after the war will almost certainly be Britain, western Europe, and Canada. Russia can be included if adequate credits—private or governmental—are provided (BW—Apr.15'44,p111).

Capable of the greatest expansion if properly cultivated are Latin America, China, and India.

Incidentally, it should surprise no one if the new League of United Nations decides to maintain for some time wartime blacklists in newly liberated areas and in neutral countries.

Newest proposal is that these be replaced in countries like France by a "white" list of companies as soon as they are completely cleared of all ties with the Axis or with profascist powers.

Despite this threat and Washington's move last week to stop all gold shipments from this country to Argentina (BW—Aug.19'44,p5), the Buenos Aires government is boldly continuing its profascist program with full confidence that the pressure on London from the local British community, the size of Britain's investments in Argentina, and London's wartime dependence on Argentine food supplies will prevent the application of sanctions.

Unless Washington forces a showdown soon, the U.S. will lose face in the Argentine because, so far, this country has talked big but done next to nothing to back up its threats.

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## rgentina on Spot

Will its policy of economic lation yield to sanctions, thus ing solidification of Western misphere for postwar tasks?

argentina may be about to pay a price for its political indiscretions the past five years.

t remains to be seen whether econic sanctions rigorously imposed by United States and Great Britain perhaps by some Latin-American ions—will bring the Argentine to its es, topple the government of Gen. elmiro Farrell, and strengthen the misphere bloe for the difficult econic and political tasks ahead.

Nothing in the Argentine economic ture is a parallel for the weakness of evolution-born Farrell government teverything in the nation's economic tory casts light upon the causes of present delinquency, and upon the terms of its profascist leaders.

present delinquency, and upon the gins of its profascist leaders.
European Ties—Historically, Argenma has been oriented toward Europe.
European stock (unlike all other tin-American populations). Between 10% and 80% of Argentina's import d export trade before the war was the Europe, chiefly Great Britain. Germiny was second; the U.S. third.

For a decade at least, Argentina's commercial policies have been directed toward preparing the nation for such an eventuality as economic isolation—such as threatened in the early thirties, and such as has been the case for the past five years.

past five years.

• Swung Into Action—Faced with an unfavorable exchange position in the 1928-1932 period, when export trade hit bottom, Argentina swung into action. Gold exports were banned. Europe had begun its drive for agrarian self-sufficiency with peculiarly dire effects upon agrarian Argentina. In 1933 the Roca-Runciman trade treaty (with Great Britain) started the pendulum on its return swing.

Argentina adopted the slogan, "Buy from those who buy from us," and within the next six years signed 17 barter and compensating trade agreements. The government was virtually in the foreign trade business, and a plan of public works, restricted imports, and protection and encouragement of home industry was launched.

Although Argentina lacks a primary steel industry and relies heavily on semimanufactured imports for its manufacturing industry, its fabricating facilities are varied and have been able to weather the war years almost with ease.

• Farm Income—Farmers, who are onefifth of Argentina's population, account for more than their share of the
country's total national income and,
through export of the bulk of their

#### LATIN AMERICA VI

In this-the sixth in a series of reports interpreting wartime developments in Latin America that will affect postwar American trade-Business Week surveys the Argentine economy, the changes which have occurred during the war, and their implications for the future

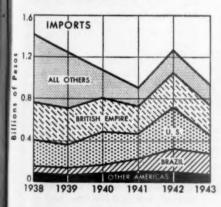
Previous reports have dealt with U. S.-Latin-American trade (BW-Apr.8'44,p113), changes during the past five years in hemisphere industry, mining, agriculture, and in intra-American trade (BW-May20'44,p22), Mexico (Jun. 10'44,p109), Chile (BW-Jun. 24'44,p113), and Venezuela (BW-Jul.8'44,p113).

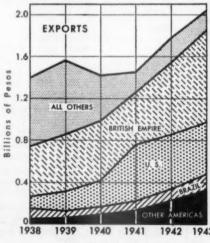
grain and livestock production, normally bring in more than 90% of the country's foreign exchange. On the other hand, almost half the population, working in industry at low productivity, normally devotes its efforts entirely to supplying domestic needs which must be supplemented by imports of manufactures.

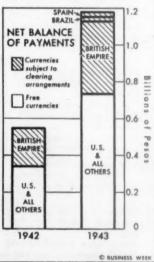
Between 1939 and 1943 the value of Argentine crop and livestock production advanced 10%, but the value of manufacturing output rose 60%. Taking the value of output minus production ex-

## WAR EXPORTS BOOST ARGENTINE EXCHANGE BALANCE

Declining imports and soaring exports provide Argentina with postwar buying power. Not all of it dollars.







he differential between Argentine nports and exports has given a halfillion-dollar fillip to that country's old and foreign exchange holdings. ut, as the foreign exchange picture for 1942 and 1943 shows (above right), dollars have only a healthy, not a predominant, edge on sterling and other blocked currencies in this wartime accumulation. Naturally, the

British Empire and the United States took an increasing slice of Argentine war exports, but the biggest rise was in trade with other hemisphere countries—trebled during the war.

penses, farm and pastoral production in 1943 fell behind industrial output for the first time.

• Meat, Livestock Firm—During the war, export markets for meat and livestock have remained open, while outlets for Argentina's huge cereal shipments have shrunk by 70%. However, price increases averaging around 75% have lifted the total agricultural yield of

foreign exchange by 13% since 1939.

Industrial production has expanded 20% to 25% during the war. But imports of metals manufactures and of fuels, which accounted for almost half of the value of total imports before the war, have shrunk 80% to 90%, and the cost of what little has been obtainable has soared.

Industrial exports have expanded ten-

fold (in value); the price rise has be about 75%, but even after this hu rise in volume, industrial exports of stitute only 5% of Argentina's prodution in this category.

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• Billion in Gold—Dollarwise, as a n result of these factors, Argentine export expanded 50% between 1938 and 194 and imports fell by one-third. Indee in five years, total exports have exceed

## Argentine Exports Grow, Imports Decline

Argentina is the second largest Latin-American republic. Its population of 13,709,000 (1943 est.) is 95% of European extraction. Its standard of living is the highest south of the Rio Grande.

An occupational breakdown of Argentina's working population (1938) shows it to be closely parallel with that of the United States:

Industries														46.7%
Farming														
Commerce .	0	0	0	0	0							0		13.5%
Transportation														
Miscellaneous		0	0	0	0		0	0	0	0	0			18.0%

During the past two decades Argentina's agricultural population has declined, while the importance of farm products in the nation's export trade has grown rapidly. Today urban dwellers constitute 80% of the total population.

#### MANUFACTURING

Rapid expansion of manufacturing industries has occurred in the face of declining imports of raw materials.

Indexes of employment in some of the chief lines reflect this growth (1937=100):

1939	1942	1944*
Food products 104	128	140
Machinery, vehicles 106	103	104
Metal products 108	119	110
Construction materials 114	134	142
Leather manufacturing 117	128	133
Chemicals119	136	143
Textiles	129	140
General Index 108	124	128

\* Average, Jan.-Apr.

Meanwhile, manufacturing exports (in millions of pesos) skyrocketed:

Textiles 3.1	1943
Textiles	195.7 48.4
Iron, steel 0.3	12.4
Pottery, glass 0.2	10.3
Miscellaneous 40.9	157.5
Total 45.5	424.3

#### **AGRICULTURE**

Active government interventionforced sale of wheat for feed, and compulsory milling of old wheathas improved the carryover position. By the end of this year only about 7,000,000 tons of this year's crop will be available for 1945 use. Production in recent years has been (in millions of tons):

1939-42											
1942-43									0		6.4
1943-44	(est.)	0									7.1

Cotton cultivation is at new high levels. Recent production has been (in tons):

1930-34			0	0				0	0	0		0	0	41,000
														50,300
1941-42								0						80,900
1942-43					0		00				0			107,000
1943-44				*	*					*				114,000

Tobacco production has risen (in tons):

1933-43	(aver.)	 	 16,865
1942-43		 	 16,440
1943-44		 	 18,630

During the past few years, oversupply and an urgent need for fuel have resulted in the burning of part of the linseed carryover. Production of oilseeds has been (in thousands of tons):

	Sui	Seed	nuts	Linseed
1938-43	(aver.) .	454	73	1,414
1942-43		337	96	1,525
1943-44	(est.)	1,200	190	1,695

The serious drought in 1943 resulted in a decline in beef exports from 1942. Most Argentine beef is boned and frozen for export; converted to conform with earlier bonein figures, exports were (in tons):

1936-	3	8	1	(2	IV	e	T.	.)				0			0		629,000
1942																	707,000
1943					0	q	0	0	0	0		0					601,000

Hog slaughtering in 1943 totaled 3,094,239 head, compared with 2,151,379 in 1942. The previous high was 1,350,000 in 1937.

Exports of dairy products, chiefly to Great Britain, rose in 1943. In metric tons, these exports were:

Butter							1942 14,400	1943 16,227
Cheese							8,624	13,392
Casein							15,855	24,624

#### MINING

The loss of some important export markets in 1943 resulted in a decline in mining. Recent annual production, in metric tons, has been:

. 19	41 1942	(est.) 1943
Sulphur 3	73 2,182	16,000
Bismuth con-		
centrates	8 40	37
Metallic lead 18,03	21 20,760	16,000
Mica 4:	20 525	423
Tantalite		2,073
Metallic tin 78	80 720	561
Tungsten con-		
centrates 1,50	64 1,923	0
Zinc concen-		
trates 66,0	16 56,642	37,185

\* Unavailable.

Petroleum production, on the other hand, rose in 1943 to 24,900,000 bbl., compared with 23,700,000 bbl. in 1942, and a 1936-40 average of 19,580,000 bbl.

#### POWER, TRANSPORT

At the end of 1942 there were 977 power plants in Argentina, producing 2,773,000,000 kwh. of electric energy. Consumption of power has risen sharply:

1938 . 1,754,000,000 kwh. 1942 . 2,136,000,000 kwh. 1943 . 2,257,000,000 kwh.

Serious shortages forced radical changes in the source of fuel for power (in thousands of tons):

1941	
Fuel oil, gas 524	325
Coal and coke 416	255
Firewood, charcoal 46	211
Maize (corn)	1,169

Four-fifths of Argentina's railroad network is foreign-owned.

Argentina's merchant fleet was insignificant before the war. Acquisition of interned vessels, and purchases from neutrals, have formed the basis of the new State Merchant Fleet. At the close of 1943 this numbered 31 vessels of 205,556 deadweight tons. From Spain, Argentina will obtain two new merchant ships, one warship.

gorts by around \$500,000,000. This, minished by repayment of foreign its, but supplemented by inflow of reign capital, has nearly doubled gentina's foreign exchange and gold dings to over \$1,000,000,000 availle(1) for postwar purchases of manatured products, (2) as liquid guartee against future foreign investments Argentina, and (3) as capital for instment by Argentina in neighboring

According to Argentina's Central nk, holdings of gold and foreign exage amounted to \$940,000,000 at

end of 1943.

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The bulk of this sum (75%) is in form of gold held at home or mad. About 19% is gold-guaranteed itsh blocked sterling, and 6% is \$. dollar currency. The sterling hold-g is £48,000,000 (about \$172,000,000) of which £1,340,000 (about \$5,0,000) was acquired through a deal

th Paraguay.

Supplying Britain—During the past e years Argentina has continued to ay an important role as a supplier of rat Britain and parts of the Empire, d through Great Britain, a supplier recipients of U.S. lend-lease aid. Igentina gets U.S. dollars in this trigular deal.) At the same time, trade th other Latin-American countries has ared.

In 1938, 34% of Argentine exports at to the British Empire (chart, page 3); in 1943, the share was 42%. Latin merica took 11% of Argentine exports 1938, 24% in 1943. Valuewise, the

crease was about 360%.

Most spectacular, however, was the e in Argentine exports to the Union South Africa, from a few million sos in 1938 to 158,000,000 pesos in 43. Of all the wartime gains, this is e least likely to last. South Africa is traditional British sphere forced into de with the Argentine by the war. gentina took advantage of this, osted prices to the limit, passed off at South Africa considered to be ferior goods.

In U. S. Market—Cut off from both

In U.S. Market—Cut off from both iropean and Asiatic suppliers, Argendra turned to nearer sources. At first, nearos Aires tried to stay out of the S. market. Then pressure forced the ming of the 1941 reciprocal trade reement, and Argentina shopped arply in the U.S. for goods bound on to get scarce. U.S. exports to Arntina hit a peak in 1942. (Then, with e political upset, Washington started mid-1943 to make U.S. goods hard get)

By 1943, after a steady climb, Brazil uped first place from Great Britain supplying 21% of Argentine imrts. The United States held third Economical...for Small Plants
... as well as Large Ones



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LOGAN DRINKING CUP COMPANY 68 Prescott Street, Worcester 5, Mass. PACIFIC COAST ENVELOPE COMPANY 416 Second Street, San Francisco 7, Calif.

Divisions of UNITED STATES ENVELOPE CO. 13 Plants from Coast to Coast rank as a supplier in 1943. During the first five months of this year, Brazil boosted its share to 31%, while U.S. exports to Argentina continued to decline, comprising only 16% of Argentine imports.

• Iron From Brazil-Imports from other Latin-American countries-such ports as lumber, lead ore, and sand for construction-were expanded. Imports of iron ingots from neighbors were nonexistent in 1937, but in 1941, 99% came from other Latin-American countries, chiefly Brazil. (Spain supplied 30,-000 tons of iron products last year, will boost this to 60,000 tons this year.)

Chile provided increasing quantities of copper and products, pig iron, sulphur, hemp, dyestuffs, nitrates, chemicals and pharmaceuticals, lumber, and

Mexico sent zinc sheets, refined zinc, graphite, mercury, and calcium carbide to Argentina.

Bolivia supplied 250 tons of rubber annually, and increasing quantities of petroleum and sulphur.

New Customs Union-Argentina is determined to maintain its trade with its nearest neighbors and to extend the market for its products far beyond. For such products as cheese, wines, drugs, and some textiles, Argentina has gained a reputation likely to assure retention of some important war-created markets. To implement trade in its immediate economic sphere, Argentina is working on the formation of a customs union to include Chile, Bolivia, Uruguay, Paraguay, and Brazil (BW-Dec.25'43,p66).

The Argentine Industrial Union is actively engaged in studies of methods of improving Argentine products and their competitive position in foreign markets. It also plans a mining laboratory and training center at home. Several years ago, Argentina secured the services of the Armour Institute for a study of product standards and of means of improving production techniques. The government has established factory training schools for the textile industry. Technical skill in industry has been enhanced recently by the influx of refugees from Europe who have entered chemical and pharmaceutical, textile, and metallurgical industries.

• Busy on Munitions-At the moment there is evidence of a systematic government effort to turn all possible manufacturing facilities to the production of armaments and munitions. Dozens of factories are producing parts for tanks (BW-Jul.1'44,p114), and engines are being obtained from abroad (BW-Jul. 29'44,p112).

This is both a symptom and a cause of Argentina's current noncooperative attitude in United Nations affairs. As long as Buenos Aires feels able to stand on its own against the Allies, it is for the bat to consolidate this position and to ways of meeting reprisals.

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sproport • Help for Europe?-In the near fut by virtue of its position as one of May Lo world's great food exporters, Argent e Cons may necessarily be called upon to nment in the rehabilitation of Europe. It It has by no means clear that Europe's ne rt of L can be met without Argentine aid g Coo that other United Nations-principal the U. S .- will make the sacrifice ne t cont sary to replace Argentina as a suppl of food. Unity

Thus, Argentina's future positi tradewise, is encouraging. Demand exist for the bulk of Argentina's tra tional exports. In the transition peni when absolute shortages of civil goods and light manufactures pers Argentina may continue as a supplier other Latin-American countries. H much of this trade will outlast the em gency period cannot be guessed, h Argentina plans the elimination of sor uneconomic facilities and the prob tion of others deemed necessary national security.

#### CANADA

## Bonus Backfires

Ontario premier's feu with Mackenzie King and h "baby bonus" leads to callin off postwar planning parley.

OTTAWA-When Ontario's Premi George Drew served notice on the n of Canada that he would do his best prevent Prime Minister Mackens King's \$200,000,000 "baby bonus" h from coming into operation, he cut the pins from under the Dominion's pos war planning machine.

• His Real Aim-Right away, Kin posted notice that a scheduled domi ion-provincial conference, which was t have rounded out Canada's postwi plans, would not be held until after federal election because Drew's vendett against the prime minister and his bon law would be sure to wreck the confe ence.

Drew's move was political rather that economic. To upset the baby bonus la he must bring about the defeat of King as prime minister. And this is his reaim. To achieve it he is mobilizing Or tario's indignation over what it call Quebec's isolationism, and asserting that Ontario, richest of the provinces would pay nearly half of the annual cos

the baby bonus while Quebec, with many large families, would benefit proportionately through receiving any one-third of the bonus outlay.

May Lose Liberals-Drew, a Progresne of e Conservative, heads a minority gov-Argent

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ment in Ontario. It has held office for a year by suppe. It nt of Liberals against the up-and-com-cooperative Commonwealth Fed-ation opposition. But Liberals may e's ne e aid rincip of continue to support him after his allenge to King on the bonus law. ce ne suppl

Unity Showdown-Canadians see in rew's move the forcing of a showdown national unity in the coming federal ection. King avoided conscription for erseas military service in an attempt avert an open clash with French-Ca-dian Quebec. Drew contends King's licy toward Quebec has promoted sunity, and that Quebec must be ught it can't dictate national policy. Drew is nibbling at one of Canada's ost dangerous issues. Even with ing's conscription compromise, Quee's attitude toward the war continues evidence itself in repeated disturbces between civilians and the military Quebec cities. Even if reports of this iction are kept from the public, Drew ust be aware of its seriousness.

Although the dominion-provincial onference has been postponed, prep-rations for it had been carried far ough to provide a long-term projecon of Canada's postwar economic plan. Full Employment—The agenda estabshes full employment and high naonal income as the "foundation stone"

postwar policy.

It proposes to build a program of enburgement of private enterprise (agriulture, manufacturing, and construcon) and public improvements on this

undation.

Industry would be encouraged by (1) x and tariff reform, (2) improved prouction and distribution, (3) greater andardization, (4) cheap credit and sub-dies, (5) checks on inflation, (6) prootion of foreign trade through export redits, floor prices, government buying, nd government underwriting of longerm contracts, and (7) monetary policy, acome subsidies (baby bonuses), and

ocial service programs.

Obstacles Cited—The agenda cites as bstacles to be avoided in the postwar lan (1) discriminating and discouraging xation, (2) fear of government competion, and (3) domination of markets

cartels and monopolies.

Public improvements would include ansportation developments, conservaon and development of natural reons, social and welfare amenities, such s hospitals, parks, and recreation ceners, rural electrification, and sanitation.

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LIFTS and ELEVATORS

## THE MARKETS

(FINANCE SECTION-PAGE 62)

Unlike the closing days of last week when a sudden burst of buying enthusiasm, accompanied by materially higher trading volumes, sent stock price averages almost within striking distance of their July peaks, this week saw investors and market traders alike revealing inereasing signs of timidity.

• Sharp Decline-On Tuesday, stocks generally suffered their worst setback in over two weeks. That day 573 of the 883 different issues changing hands on the New York Stock Exchange slid off to lower levels, with only 128 showing advances, and by the middle of this week a good part of the gains registered a few days previously had vanished.

The losses seen of late haven't been confined to the more speculative groups. Larger than fractional daily declines have been noticeable in a number of pivotal and high-price issues, particularly in the case of "war stocks" such as the steel and

heavy industry shares.

• Bonds Drop, Too-This week's weakness in stocks was quickly reflected in the bond market, and in that trading arena fair-size declines have been chalked up lately by quite a few of the second-grade interest-paying and defaulted rail issues.

Trading volumes accompanying the decline have been contracting rather than expanding, however, and the move to-wards lower price levels thus far this week appears to have been caused chiefly by the falling off in bids instead of by

any serious selling pressure.

The short life of last week's buying enthusiasm, many brokers think, is due to the rapidity of the reconquest of France, emphasizing the necessity for a more realistic appraisal of the uncertainties inherent in the reconversion period that may come sooner than antic pated.

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• London Reaction-More potent in en. gendering the current period of growing uneasiness apparently has been the con sistent drift towards lower price levels evidenced of late in the London stock market which previously had always greeted Allied victories by rising to new

Some Londoners believe the decline merely represents the normal reaction that always follows a prolonged advance, Others, however, rather expect a definite change in the uptrend so long dominant. Less bullishness is reported as once avid stock buyers reflect on the uncertainties and risks the immediate postwar period is apt to produce.

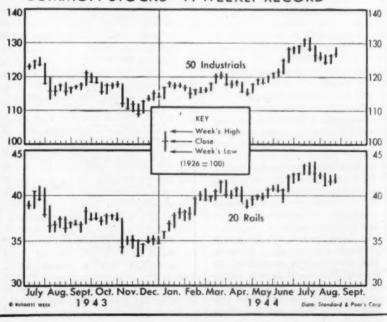
• Some Optimism – Bullishly inclined Wall Streeters think the present uneasiness here will spend itself very shortly, and they expect stocks to start moving Nevertheless. higher again soon. even this group advocates more than usual care in making commitments.

Security Price Averages

This Week	Week Ago		Year Ago
Stocks Industrial127.0 Railroad 41.7 Utility 55.8	126.5 41.6 55.5	126.5 42.5 53.2	115.8 36.4 49.3
Bonds Industrial121.3 Railroad107.2 Utility116.1	120.8 107.5 116.1	120.9 107.3 116.2	117.4 98.0 115.6

Data: Standard & Poor's Corp.

#### COMMON STOCKS—A WEEKLY RECORD



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om Jules Kramer of the J. Walter mpson Co. comes this reminder the attempt to control wages and under a wartime economy is not new-fangled alien gadget it somes is assumed to be:

n January 8, 1777, the General Assembly e State of Rhode Island and Providence ations passed a law with the formidable of "An Act to prevent Monopolies and ssion, by excessive and unreasonable s for many of the Necessities and Con-ncies of Life, and for preventing Enes, and for the better supply of our ps in the Army with such Necessaries by be wanted."

his was a price and wage control law, ding an old and authentic American tran for stabilizing prices and wages as a wartime measure.

he Rhode Island act was sweeping in e and had "teeth" in it, too. It was ective, as were similar laws which were ed on the statute books of other of the Not only were conditions so basically rent than today, but the fledgling Re-ic suffered the disaster of a currency tion and this alone was enough to nulall efforts.

at the founding Fathers knew what was ed, and kept on trying. We find an t in Massachusetts as early as 1776, the before the Declaration of Independ-At the end of that year, representaof all the New England states met at idence and agreed on comprehensive ures to control the prices of about everyg but real estate. The states passed laws, the Rhode Island act. They failed and repealed.

77 the Continental Congress stepped the picture and exhorted the separate s to act by means of regional conven-More laws were passed. They were ineffective because of the deepening ency crisis and the inability to secure ic cooperation. But our forebears kept trying until 1780, only a year before ting came to an end with the surrender Cornwallis at Yorktown, when Congress action on the currency. This wrote finis urther control efforts.

he Rhode Island act provides an illuming insight into the judgment of the nders of the Republic. In the preamble read, concerning the spiral in prices and es, that "unless a speedy and effectual be put thereto, will be attended with most pernicious and fatal consequences. hen comes an itemization of various cles and ceiling prices for them—food-fis, wearing apparel, fabrics, lumber and ding materials, even tavern meals. Labor assified according to occupation. Among lowest paid workers were tailors at 3 lings a day but board was included. Farm tkers received somewhat more, 3 shillings ence a day. Caulkers were in the top pay cket at 7 shillings a day.

We read that "good merchantable West India Rum" must not be sold for more than 7 shillings 8 pence a gallon or 2 shillings a quart. "New England Rum of the best quality" was much cheaper, 4 shillings 6 pence a gallon. No more than 3 pence was to be charged by barbers for a shave, and a ceiling of 4 pence a mile was set for horse-

Wholesale prices of imported goods also were controlled. The act states that no more than 275 pounds sterling must be charged for certain types of textiles such as woolens that cost 100 pounds in Europe. A maximum advance of 20 per cent was allowed on Warlike and Military Stores.

Severe penalties were fixed for violations, including confiscation, fines and being de-

clared "an enemy to his country."

The records of the times also disclose a realization of the need of rationing and the prevention of hoarding. We read that the citizens of Boston, considering "the present extraordinary Price of Provisions," urged the more opulent citizens to agree among themon no occasion whatever to have more than Two Dishes of Meat on the same Day on their Table and to avoid the Use of Poultry & every other Superfluity as much as possible." Bostonians also were urged "to make two Dinners per Week on Fish, if it had to be." And we find a resolution passed by Massachusetts in 1779 to prevent families from having on hand more than a year's provisions.

#### Hotel War Job

We are getting used to statements of what various industries and companies are doing to help win the war. But the Sherman Hotel, in Chicago, reduces its performance to specific figures. In each of its rooms, a guest finds the following report:

"Hotel Sherman records reveal that we have:

"In the past year sheltered and fed approximately 90,000 Servicemen and

"In the same period fed and housed approximately 180,000 civilians traveling in the war effort,

Sent 143 employees to the uniformed services

"Had an average annual staff turnover of 400%,

"Changed from 37% to 43% female

"Fed increased patronage under existing inadequacies without resorting to the 'closed' sign,

"We subscribed 170% to our quota of the 1943 Community and War Fund,

"Our employees have been awarded the 100% participation banner by the Treasury Dept. for Bond Subscriptions."

The report closes with a word of thanks for the guests' cooperation. W.C.



Army Hangar utilizes roof trusses of crescent design prefabricated by Timber Structures, Inc.

## SERVICE IMPORTANT

... BUILD WITH TIMBER STRUCTURES

Thinking about a new industrial or commercial building is one thing. Planning the structure is another thing. Selection of materials and construction is something else again. Through every step from blueprint to completion you work with specialists, from whom you demand service.

At Timber Structures we know the importance of service in the pre-fabrication of timber trusses. Skilled engineering, efficient manufacture, fast shipping and erection are demonstrated in these examples:

Highway bridges completed and shipped 18 days after order received—15 days ahead of schedule.

2. Army warehouses (200'x800') erected at an average time of 5 days per warehouse.
3. Ten carloads of trusses for army hangars assembled and erected complete 21 days from arrival of first car at jobsite.

Cases such as these indicate the importance we place on service and on cooperation with architects, contractors, engineers and management.

We suggest that you consider the advantages of prefabricated timbereconomy, strength, long life-for your building projects. Literature upon re-quest. We are prepared to serve you in timber, allied structural materials.



Portland 8, Oregon

New York 17, N.Y.

## THE TREND

## COTTON-BANKHEADING INTO TROUBLE?

Sen. John H. Bankhead of Alabama has taken over for King Cotton the regency so long, held by Ellison D. (Cotton Ed) Smith, who failed to win renomination in the South Carolina primaries. Bankhead is making a big effort to force cotton prices higher.

• Yet, in winning, the gentleman from Alabama probably will be doing his own constituency a disservice. Prospects for the cotton economy of the Southeast after the war are so bleak that raising planters' hopes at this time seems like picking them up for a hard letdown. Here are persuasive reasons for that view of it:

 Price and quality competition with synthetic fibers will become a postwar reality.

(2) In the competition with low-cost foreign growers, export markets for cotton can be regained only by some such artifice as subsidized sales or a cartel to hold the umbrella over all producing countries.

(3) Mechanization promises revolutionary changes in the cotton map, shifting most of the crop to the broad

plains of Texas and Oklahoma.

Let's look at each of these forecasts. For background here are some of the most pertinent figures on the changes that have been taking place in cotton:

	1925–29 Average	1935–39 Average	1944 Estimates
Астеаде	43,900,000	28,500,000	20,000,000
Yield per Acre (lb.)	171 ·	226	264
Production (bales)	15,300,000	13,100,000	11,000,000
Foreign Production			
(bales)	10,700,000	13,600,000	
U. S. Exports (bales)	8,100,000	5,200,000	
U. S. Consumption (bales)	6,600,000	6,600,000	9,700,000
U. S. Rayon Consumption			
(500 lb. units)*	200,000	700,000	1,500,000
U. S. Cotton Price (lb.)	17.4¢	9.9¢	20∉

<sup>\*</sup> Rayon here is converted into 500-lb, units to correspond to the weight of the cotton bale,

Mill men today declare that cotton and rayon staple fiber are on a competitive price basis. Moreover, rayon has snatched a substantial slice of cotton's tire cord market on a quality basis.

• It is true that much of rayon's spectacular growth (use trebled in the ten years ending with 1939) was at the expense of silk. Yet the synthetic fiber undercut cotton to some extent even in those days when rayon cost more than it does now and when cotton was selling for half its present 20¢ a lb.

Should the United States experience a sustained high rate of business activity after the war, cotton could concede some ground to synthetic fibers and still enjoy an excellent volume. However, we have never been able to use anything like all the cotton we could grow.

Our cotton harvests averaged around 15,000,000 bales a year in the late twenties and we sold far more than

half our crops abroad. Peak peacetime consumption cotton by U. S. mills was under 8,000,000 bales, be wartime use above 11,000,000 a year. Even figure postwar home needs at 9,000,000 bales a year, a late export market would still be imperative.

In the thirties, we limited planted acreage and applied other price stimulants such as taking surpluses off the market with public funds. This accomplished seven

things:

Due to better farming, we grew almost as much a ton as ever on 60% as much acreage.

Farmers were urged to—and to some degree did—the acres forced into idleness for a more diversified as culture.

We priced ourselves out of the export market to major extent, fostering a big rise in foreign cotton.

We locked up surpluses that have ranged between 1 000,000 and 13,000,000 bales (equivalent to an avera crop) for many years.

• Before the war, in an effort to regain our dwindling export markets, we tried the export subsidy. May sound students of agricultural economics feel we shave to return to the system if we are to continue to a abroad. But even the most casual observer knows the such dumping is repugnant to all the fine theories breaking down trade barriers in the postwar world. A realist knows, too, that subsidies on American production will bring retaliatory subsidies for the other fellow products or countervailing duties against ours.

Mechanical cotton choppers and pickers could sold some problems of exports and rayon competition at a same time that they were creating domestic upset. These aids to cheap production should enable us to compete with the low-cost labor of China, Egypt, India, a

Brazil.

However, this would be no help to the average sm landowner, tenant farmer, or sharecropper in Alabam These people couldn't afford the new machines, as even if they could, the small and hilly fields which p dominate in the Southeast wouldn't be suited to the economical use.

• Experts in the Dept. of Agriculture saw mechanization coming years ago, saw the prospect of profitable contain Texas at 6¢ a lb., saw the ruination of planters dependent in the Cotton Belt. That's one reason they have been pushing diversification—peanuts, yams, livestoc and the feed for stock. It remains to be seen if the growing industrialization of the South will provide makets for enough of this food raising to make up the propective cotton losses.

The Editors of Business Wes

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